

GenCore version 5.1.1.9  
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OM protein - protein search, using sw model

Run on: December 20, 2006, 04:58:01 ; Search time 51 Seconds  
(without alignments)  
1268.336 Million cell updates/sec

Title: US-10-736-461-1  
Perfect score: 3774  
Sequence: 1 MSSSEKQHNVSPPRDSAEQN.....EVSKNQKGVCPVNGLSLSSD 739

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 650591 seqs, 87530628 residues

Total number of hits satisfying chosen parameters: 650591

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents\_AA\*  
1: /EMC\_Celerra\_SID33/ptodata/2/iaa/5\_COMB.pep:\*  
2: /EMC\_Celerra\_SID33/ptodata/2/iaa/6\_COMB.pep:\*  
3: /EMC\_Celerra\_SID33/ptodata/2/iaa/7\_COMB.pep:\*  
4: /EMC\_Celerra\_SID33/ptodata/2/iaa/H\_COMB.pep:\*  
5: /EMC\_Celerra\_SID33/ptodata/2/iaa/PCUTUS\_COMB.pep:\*  
6: /EMC\_Celerra\_SID33/ptodata/2/iaa/RE\_COMB.pep:\*  
7: /EMC\_Celerra\_SID33/ptodata/2/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query	Score	Match	Length	ID	Description
1	3769	99.9	748	2	US-09-949-016-10387	Sequence 10387, A
2	1240	32.9	744	2	US-09-785-381-1	Sequence 1, Appl
3	1234.5	32.7	744	2	US-09-785-381-3	Sequence 3, Appl
4	1181	31.3	803	2	US-09-949-016-11498	Sequence 11498, A
5	1178	31.2	780	2	US-09-785-381-11	Sequence 11, Appl
6	1056.5	28.0	764	1	US-08-424-567-2	Sequence 2, Appl
7	1056.5	28.0	764	1	US-08-711-928-2	Sequence 2, Appl
8	1056.5	28.0	764	2	US-09-184-937-2	Sequence 2, Appl
9	1056.5	28.0	790	2	US-09-949-016-11220	Sequence 11220, A
10	900.5	23.9	656	2	US-09-875-811-10	Sequence 10, Appl
11	896.5	23.8	663	2	US-09-875-811-6	Sequence 6, Appl
12	896.5	23.8	679	2	US-09-875-811-2	Sequence 2, Appl
13	855.5	22.7	651	2	US-10-094-749-2440	Sequence 2440, Ap
14	826.5	21.9	598	2	US-09-875-811-12	Sequence 12, Appl
15	822.5	21.8	605	2	US-09-875-811-8	Sequence 8, Appl
16	822.5	21.8	621	2	US-09-875-811-4	Sequence 4, Appl
17	714	18.9	970	2	US-09-795-927-7	Sequence 7, Appl
18	659.5	17.5	656	2	US-09-720-317A-20	Sequence 20, Appl
19	640.5	17.0	593	2	US-09-720-317A-22	Sequence 22, Appl
20	640	17.0	660	2	US-09-720-317A-30	Sequence 30, Appl
21	636.5	16.9	680	2	US-09-720-317A-18	Sequence 18, Appl
22	636	16.9	621	2	US-09-720-317A-16	Sequence 16, Appl
23	618.5	16.4	658	2	US-09-720-317A-24	Sequence 24, Appl
24	613.5	16.3	631	2	US-09-720-317A-29	Sequence 29, Appl
25	609.5	16.1	646	2	US-09-720-317A-26	Sequence 26, Appl
26	602.5	16.0	688	2	US-09-720-317A-2	Sequence 2, Appl

27	602	16.0	660	2	US-09-720-317A-23	Sequence 23, Appl
28	599	15.9	646	2	US-09-720-317A-28	Sequence 28, Appl
29	586.5	15.5	579	2	US-09-720-317A-4	Sequence 4, Appl
30	568.5	15.1	644	2	US-09-720-317A-25	Sequence 25, Appl
31	568.5	15.1	685	2	US-09-720-317A-31	Sequence 31, Appl
32	520	13.8	295	2	US-09-785-381-5	Sequence 5, Appl
33	505.5	13.4	596	2	US-09-252-991A-23812	Sequence 23812, A
34	503	13.3	828	2	US-09-248-796A-20746	Sequence 20746, A
35	500.5	13.3	590	2	US-09-902-540-14944	Sequence 14944, A
36	462.5	12.3	565	2	US-09-602-787A-616	Sequence 616, App
37	443	11.7	616	2	US-09-543-681A-4421	Sequence 4421, Ap
38	336	8.9	472	2	US-09-902-540-13374	Sequence 13374, A
39	327.5	8.7	566	2	US-09-543-681A-4544	Sequence 4544, Ap
40	324	8.6	535	2	US-09-252-991A-21805	Sequence 21805, A
41	319.5	8.5	533	2	US-09-107-532A-5244	Sequence 5244, Ap
42	318.5	8.4	562	2	US-09-489-039A-10405	Sequence 10405, A
43	316.5	8.4	575	2	US-09-438-185A-1015	Sequence 1015, Ap
44	291.5	7.7	380	2	US-09-540-236-2833	Sequence 2833, Ap
45	286	7.6	483	2	US-09-710-279-3132	Sequence 3132, Ap

ALIGNMENTS

RESULT 1  
US-09-949-016-10387  
; Sequence 10387, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 10387  
; LENGTH: 748  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-10387

Query Match 99.9%; Score 3769; DB 2; Length 748;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 738; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MSSSEKQHNVSPPRDSAEQNSYPSGHLHLEQRESSTDFKOPETNDQCRPYHRIILIEROE 60  
Db 10 MSSSEKQHNVSPPRDSAEQNSYPSGHLHLEQRESSTDFKOPETNDQCRPYHRIILIEROE 69  
Qy 61 KSDTNFKFVKKLQKNQCQSPAKAKNMILGFLPVQLWLPKYDLKKNILGDVMSGLIVGI 120  
Db 70 KSDTNFKFVKKLQKNQCQSPAKAKNMILGFLPVQLWLPKYDLKKNILGDVMSGLIVGI 129  
Qy 131 LLVPOSTAYSLLAGEPVGYLYTSPFASIIYFLGTSHHSIVGIPGVLCMIGETVDREL 180  
Db 130 LLVPOSTAYSLLAGEPVGYLYTSPFASIIYFLGTSHHSIVGIPGVLCMIGETVDREL 189  
Qy 181 OKAGYDVAHSAPSLGMVNSGNTLLNHTSDRICDKSCYAIMVGSTVTFETAGVYQVAMGPFQ 240  
Db 190 OKAGYDVAHSAPSLGMVNSGNTLLNHTSDRICDKSCYAIMVGSTVTFETAGVYQVAMGPFQ 249  
Qy 241 VGFVSVYLLDALLSGFVTGASFTILTTSQAKYLLGLNLPRTNVGSGSLITTTIWHVFRNIHKT 300  
Db 250 VGFVSVYLLDALLSGFVTGASFTILTTSQAKYLLGLNLPRTNVGSGSLITTTIWHVFRNIHKT 309





Db	24	RPVYSELAFQOQRERRLPERRTLRSLSARSCSRKRAFKAUKALLPILDMWLPKVKVKEW	83
Qy	108	ILGDVMSGLIYGILLVPOSIAYSLLAGOPPVVGLYTSFFASTIYIFLLGTSRHSISVGIFGV	167
Db	84	LSDIISGVSTGLVGTQMGAYALLAAVPQVGLYSAFFPILTYFVFGTSRHSISVGPPV	143
Qy	168	LCLMIGETVDBRELQAGVDNHAISPSLGMVSNGSTLLNHTSDRIKDKSCYAIWVGSTVTF	227
Db	144	VSLMVGSVV--LSNAP-DDHFLPVS---GNGST-LNTTLLDTGTRDAARVLLASTLTL	194
Qy	228	IAGVYQVAMGPFQVGFVSYYLSDALLSGFVTGCASFILTTSOAKYLLGLNLPRTNGVGLSI	287
Db	195	LVGIIQLVFGGLQIGFVRYLADPLVGFETIAAAFOVLVSQVKIVLNVSTKYNVGULSI	254
Qy	288	TTWTHVFRNIHKTNCDLITSLLCLLVLLPTKELNEHFKSKUKAPIPIELVVVVAATLAS	347
Db	255	YTLIEIFQIGNGTNIADPIAGLLTIIVCMVAKELNDRFKHKIPVPIPIEIVITIIATAIS	314
Qy	348	HFGKLHENYSSIAGHITGEMPPKVPENWLLPSVAVDAIAISIGFAITVLSLSEMPACK	407
Db	315	YGANLEANYAGIVKSIPISGFLPPVLPSVGLFSDMLAASFSAVAYATAVSGVKYATK	374
Qy	408	HGYTVKANOEMYAIGFCNIIIPSFHCFHTTSAALAKTLVKESTGCHTQLSGVVTALLVIV	467
Db	375	HDYIIDGNQEFIAFGISNVESGFFSCFVATTALSRTAQVESTGGKTQVAGLISAVIMVA	434
Qy	468	LLVTAPLEYLOKSVLGVITIVNLGALKRFRDLPQMSISIRMDTVIHFVWMLSSALLST	527
Db	435	IVALGKLEPLEQKSVLAARVIANLGMFMQVCDVPRLMQKNKTDAIVWYFTTCIMIIIGL	494
Qy	528	EIGLLGVGCFISFCVILRTOKPKSSLGLLGLVESEVFESVSAKNIOTKPGIKIPFVAPL	587
Db	495	DLGULLAGLLFGLLTWLRVQPSWNGLSVSTDIYKITHYKNIIEEPGVKILAFSPSI	554
Qy	588	YYINKECFKSALYKQTVNPILIKVAWK-AAKRKIKEKV-----VTLGGI-----	631
Db	555	PYGNVDGFKCV-KSTVGFDAIRVYNKRLKALLRLOKLIKKGOLRAATKNGIISDVGSNN	613
Qy	632	-----ODEMSVOLSHDPLEHTHTVIDCSAQFLNTAGI	664
Db	614	AFEPEDVEEPEELDIPKKEIIOVDWNSLPPVKVNIHSLVLDGAVSFJLDVVGV	673
Qy	665	HTLKEVRDYEAIQIVLLAQCNPTVRDSLNGEYCKEENL----LFYSVYEAMAFAE	720
Db	674	RSLRWIKFEFORDVNVYFALLODDYLEKM---EOCGFFDDNIRKDRFELTVHDAILYQ	730
Qy	721	-VSKNQXG 727	
Db	731	NOAKSREG 738	

## RESULT 6

RES001 6  
US-08-424-567-2  
; Sequence 2, Application US/08424567  
; Patent No. 5569755  
; GENERAL INFORMATION:  
; APPLICANT: SCHWEINFEST, Clifford W.  
; APPLICANT: PAPAS, Takis S.  
; TITLE OF INVENTION: Colon Mucosa Gene Having Down-Regulated  
; TITLE OF INVENTION: Expression In Colon Adenomas And Adenocarcinomas  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Foley & Lardner  
; STREET: 3000 K Street, N.W., Suite 500  
; CITY: Washington, D.C.  
; COUNTRY: USA  
; ZIP: 20007-5109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25

Db 672 QEFIRKVDVYVGTDDDDFIEKLNRYEFPFDEGEVSSIFFLTIHDAVLHILMKD 725

RESULT 7

US-08-711-928-2

Sequence 2, Application US/08/711928

Patent No. 5831015

GENERAL INFORMATION:

APPLICANT: SCHWEINFEST, Clifford W.

APPLICANT: PAPAS, Takis S.

TITLE OF INVENTION: Colon Mucosa Gene Having Down-Regulated

TELECOMMUNICATION INFORMATION: Expression In Colon Adenomas And Adenocarcinomas

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSEE: Foley & Lardner

STREET: 3000 K Street, N.W., Suite 500

CITY: Washington, D.C.

COUNTRY: USA

ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/711,928

FILING DATE: 11-SEP-1996

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/424,567

FILING DATE: 17-APR-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/026,045

FILING DATE: 05-MAR-1993

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: BENT, Stephen A.

REGISTRATION NUMBER: 29,768

REFERENCE/DOCKET NUMBER: 40399/354/NIHD

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202)672-5300

TELEFAX: (202)672-5399

TELEX: 904136

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 764 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-711-928-2

Query Match 28.0%; Score 1056.5; DB 1; Length 764;

Best Local Similarity 31.7%; Pred. No. 5.9e-98;

Matches 226; Conservative 162; Mismatches 269; Indels 57; Gaps 9;

QY 57 EROEKSDTFKFEVIKLNQCCSPAKAKNMILGFLVQLQPKYDLKNILGDVMSGL 116

Db 23 ENHKTKGRHKTF-LDHLKVCCSCSPOKAKRIVLSLFPPIASWLPAYRLKEWLLSDIVSGI 81

QY 117 IVGILLAVPOSIAVSLLAGQEPVYGLYTSFEASIIYFLGTSRHSIVGIFVCLMIGETV 176

Db 82 STGIVAVQLGLAFALLVDIPFVGLYASFPFAIIYLFGRHSRHSVGPFPILSMVGLAV 141

QY 177 DRELOKAGYDNHNASPSLGMV--SNGSTLNLHNTSDRICDKSCYAIWVGSTVTFIAGYQV 234

Db 142 SGAVSKAVPD--RNATTLGLPNNNSNLSLDDERVA-----AAASVTVLGIIQL 191

QY 235 ANGFFQVGVSVYLSALLSGFVTGASFTILTQAKYVLGLNLPRTNGVSGSLTTWHIFV 294

Db 192 AFGILRIGFVIVLSLSLISGFTTAAAHVVLVSQLKFIQLTVPSTDPVSIKVLVSYVF 251

QY 295 RNIHKTNLCDLITSLICLLVLLPTKELNEHFKSKLKAPIELVAVVVVAATLASHFGKLHE 354

Db 252 SQIEKTIADLVLTALIVLLVSVIVKEINQRFKDKLPPIPIEFITWIAAGVSXGCDPKN 311

QY 355 NYSSIAIGHIPTGFMPKVPENLIPSVAVDAIAISIIIGFAITVLSLSEMFAGKHGYTKA 414

Db 312 RFKVAVVGDNMNPGFPPITPDVETFTQVDCFGIAVAVAFASVASVSLKYDYPLDG 371

QY 415 NOEYALGFCNIIPSPFHCTTSAALAKTLVKESTGHTQSLSGVVTALVLLVLLIAPL 474

Db 372 NOELIALGLGNIVCGVFRGAGSTALSRSAVQESTGKTQIAGLIGAIIVLIVLAIIGL 431

QY 475 FYSLOKSVLGVITIVNLRGALRKFRDLPKWSISRMVDTWVFTVMTLSALLSTIGLVG 534

Db 432 LAPLQKSVLAALAGNLKGMQFAEIGRLWRKDKYDCLIWMTFIFITVIGLGLGAAS 491

QY 535 VCFISFCVILRTQPKSSLLGLVESEVPESVSAYKNLQTKPGIKIFRFVAPLYINKEC 594

Db 492 VAFOLLTIVRTQPKCSTLANIGRTNIYKNDYDMYEPGKIFRCSPFIYFANIGF 551

QY 595 FKSALYKQT--VNPILIKVAMKAAK--RKIKK-----VTLGGIO----- 632

Db 552 FRKRLIDAVGFSPLRLIRKRNKALRKIRKIQKQGLLQVTPKGFCTVDTIKDSBELDNN 611

QY 633 -----DEMSVQLSHDPLELHTIVIDCSAIOELNAGIHTLKEVR 671

Db 612 QIEVLQDPINTTDLPHIDWDDLPLNIEVPKISLHSLIDFSAVSLDSSVSGRLKSI 671

QY 672 RDEYAGIQVLLAQCNPTVRDSLTNAGEYCKKE--EENLLFYSVVEAMAFAEVSKN 724

Db 672 QEFIRKVDVYVGTDDDDFIEKLNRYEFPFDEGEVSSIFFLTIHDAVLHILMKD 725

RESULT 8

US-09-184-937-2

Sequence 2, Application US/09184937

Patent No. 6210887

GENERAL INFORMATION:

APPLICANT: SCHWEINFEST, Clifford W.

APPLICANT: PAPAS, Takis S.

TITLE OF INVENTION: Colon Mucosa Gene Having Down-Regulated

TELECOMMUNICATION INFORMATION: Expression In Colon Adenomas And Adenocarcinomas

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSEE: Foley & Lardner

STREET: 3000 K Street, N.W., Suite 500

CITY: Washington, D.C.

COUNTRY: USA

ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/184,937

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/711,928

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/026,045

FILING DATE: 05-MAR-1993

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: BENT, Stephen A.

REGISTRATION NUMBER: 29,768

REFERENCE/DOCKET NUMBER: 40399/354/NIHD

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202)672-5300

TELEFAX: (202)672-5399

TELEX: 904136

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; INFORMATION FOR SEQ ID NO: 2:
;
; SEQUENCE CHARACTERISTICS:
;
; LENGTH: 764 amino acids
;
; TYPE: amino acid
;
; TOPOLOGY: linear
;
; MOLECULE TYPE: protein
US-09-184-937-2

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Query Match 28.0%; Score 1056.5; DB 2; Length 764;  
Best Local Similarity 31.7%; Pred. No. 5.9e-98;  
Matches 226; Conservative 162; Mismatches 269; Indels 57; Gaps 9;

RESULT 9  
US-09-949-016-11220  
; Sequence 11220, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: C0001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755

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; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11220

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Query Match 28.0%; Score 1056.5; DB 2; Length 790;  
Best Local Similarity 31.7%; Pred. No. 6.3e-98;  
Matches 226; Conservative 162; Mismatches 269; Indels 57; Gaps 9;

RESULT 10  
US-09-875-811-10  
; Sequence 10, Application US/09875811  
; Patent No. 6703495  
; GENERAL INFORMATION:  
; APPLICANT: Walke, D. Wade  
; APPLICANT: Scoville, John

```
; TITLE OF INVENTION: No. 6703495el Human Transporter Proteins and Polynucleotides Encd
; TITLE OF INVENTION: Same
; FILE REFERENCE: LEX-0186-USA
; CURRENT APPLICATION NUMBER: US/09/875,811
; PRIOR FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: US 60/210,045
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 656
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-875-811-10

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Best Local Similarity 32.2%; Pred. No. 3.4e-82;
Matches 206; Conservative 137; Mismatches 265; Indels 31; Gaps 8;

QY 93 LPVLQWLPKYDLKKNILGDMVMSGLVIGILLVPQSIAYSLLAGQEPVYGLYTSFFASIIYF 152
Db 32 LPILDWAPHYLNKENLLPDTVSGIMLAVQOVVTOGLAFVLSVHPVFGLYGSLFPALIIYA 91
QY 153 LLGTSRHISVGIFFGVLCMIGETVDRELQKAGYDHAHSAAPSIGMVNSGSLTLNHTSDRIC 212
Db 92 IFGMGHVATGTFTALTSISANAVERIVPQ-----NMQLTTQNTSVL-----GLS 138
QY 213 DKSCVAIMVGTSTVTFIAGVYQVAMGFFQVGVSVVLSDALSGFVTGASFTILTISOAKYL 272
Db 139 DFEMQRIHVAANVSLGVIQVAMFVLQGSATFVTEPVISAMTTGAATHVTSQVKYL 198
QY 273 LGLNLPRNGVSLITTIWIFRNHKNLCLDITSLCLLCLVLLPTKELNHFHFKLAP 332
Db 199 LGMKMPYISGLPGFFIYAVVFENIKSVRLKALLLSLIVLVVLKELNEQFKRKIKV 258
QY 333 IPIELVVVAATLASHFQKLEHNTNSSIAGHIPGFMPPKVPENLIPSAVDAIAISII 392
Db 259 LPVDLVIIIAAFACYCTNMNTYGLEVGHIPQIPSPRAPPNNILSAVITEAFGVALV 318
QY 393 GFATVLSLSEMFAKKHGYTVKANQEMVAIGFCNIIIPSFHCFHTTSAALAKTLVKESTGCH 452
Db 319 GYVASLALAOGSAAKFKYSIDDDNOEFLAHGLSNIVSSFFFCIPSAAMGRTAGLYSTGAK 378
QY 453 TQSGVVTALVLLVLLVIAPLFYSLQKSVLGVITIVNLGALKRFRDLPPMWSISRMDT 512
Db 379 TVACILSCIFVLIVIAIGPLLWYLMPCVLASIIIVGLKMLIQFRDLKKYWNVDKIDW 438
QY 513 VIFVFTMLSSALLSTEIGLLVGVCFISFCVILRTQPKSLLGLVSESEVFESVSAKNL 572
Db 439 GIWSTVTVFTICFAANVGLLFGVUCTIAIVIGRF--PRAMTVSIKMKMEKFKVKTMDS 496
QY 573 QTKPGIKIFRFVAPLYVINKECFKSALYKQTVNPILIKVAKKAARKIKKVVTL----- 628
Db 497 ETLOQVKIISINPLVFLNAKF-----YTDLMNMIOKENACNOPLDDISKCEQNTLNSL 552
QY 629 --GGIDQMSVOLSHDPLELHTVIDCSAIOFLNTAGIHTLKEVRDYEAIGIQVLLAOC 686
Db 553 SNGNCNEEASQSC--PNEKCYLILDCSGFTFFDYSGVSMVLYVYMDCKGRSDVILLAH 609
QY 687 NPTVDSLNTNGYCKKEEENLLFY-SVYEMAFVSKN 724
Db 610 TASLIKAMT--YGNLDSEKPIFFESVSAISHSNKN 646

RESULT 11
US-09-875-811-6
; Sequence 6, Application US/09875811
; Patent No. 6703495
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Scoville, John
; TITLE OF INVENTION: No. 6703495el Human Transporter Proteins and Polynucleotides Encd
; TITLE OF INVENTION: Same
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; FILE REFERENCE: LEX-0186-USA
; CURRENT APPLICATION NUMBER: US/09/875,811
; PRIOR FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: US 60/210,045
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 663
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-875-811-6
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Query Match      23.8%; Score 896.5; DB 2; Length 663;
Best Local Similarity 31.9%; Pred. No. 9e-82;
Matches 204; Conservative 137; Mismatches 267; Indels 31; Gaps 8;

QY 93 LPVLQWLPKYDLKKNILGDMVMSGLVIGILLVPQSIAYSLLAGQEPVYGLYTSFFASIIYF 152
Db 32 LPILDWAPHYLNKENLLPDTVSGIMLAVQOVVTOGLAFVLSVHPVFGLYGSLFPALIIYA 91
QY 153 LLGTSRHISVGIFFGVLCMIGETVDRELQKAGYDHAHSAAPSIGMVNSGSLTLNHTSDRIC 212
Db 92 IFGMGHVATGTFTALTSISANAVERIVPQ-----NMQLTTQNTSVL-----GLS 138
QY 213 DKSCVAIMVGTSTVTFIAGVYQVAMGFFQVGVSVVLSDALSGFVTGASFTILTISOAKYL 272
Db 139 DFEMQRIHVAANVSLGVIQVAMFVLQGSATFVTEPVISAMTTGAATHVTSQVKYL 198
QY 273 LGLNLPRNGVSLITTIWIFRNHKNLCLDITSLCLLCLVLLPTKELNHFHFKLAP 332
Db 199 LGMKMPYISGLPGFFIYAVVFENIKSVRLKALLLSLIVLVVLKELNEQFKRKIKV 258
QY 333 IPIELVVVAATLASHFQKLEHNTNSSIAGHIPGFMPPKVPENLIPSAVDAIAISII 392
Db 259 LPVDLVIIIAAFACYCTNMNTYGLEVGHIPQIPSPRAPPNNILSAVITEAFGVALV 318
QY 393 GFATVLSLSEMFAKKHGYTVKANQEMVAIGFCNIIIPSFHCFHTTSAALAKTLVKESTGCH 452
Db 319 GYVASLALAOGSAAKFKYSIDDDNOEFLAHGLSNIVSSFFFCIPSAAMGRTAGLYSTGAK 378
QY 453 TQSGVVTALVLLVLLVIAPLFYSLQKSVLGVITIVNLGALKRFRDLPPMWSISRMDT 512
Db 379 TVACILSCIFVLIVIAIGPLLWYLMPCVLASIIIVGLKMLIQFRDLKKYWNVDKIDW 438
QY 513 VIFVFTMLSSALLSTEIGLLVGVCFISFCVILRTQPKSLLGLVSESEVFESVSAKNL 572
Db 439 GIWSTVTVFTICFAANVGLLFGVUCTIAIVIGRF--PRAMTVSIKMKMEKFKVKTMDS 496
QY 573 QTKPGIKIFRFVAPLYVINKECFKSALYKQTVNPILIKVAKKAARKIKKVVTL----- 628
Db 497 ETLOQVKIISINPLVFLNAKF-----YTDLMNMIOKENACNOPLDDISKCEQNTLNSL 552
QY 629 --GGIDQMSVOLSHDPLELHTVIDCSAIOFLNTAGIHTLKEVRDYEAIGIQVLLAOC 686
Db 553 SNGNCNEEASQSC--PNEKCYLILDCSGFTFFDYSGVSMVLYVYMDCKGRSDVILLAH 609
QY 687 NPTVDSLNTNGYCKKEEENLLFY-SVYEMAFVSKN 725
Db 610 TASLIKAMT--YGNLDSEKPIFFESVSAISHSNKN 645
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RESULT 12
US-09-875-811-2
; Sequence 2, Application US/09875811
; Patent No. 6703495
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Scoville, John
; TITLE OF INVENTION: No. 6703495el Human Transporter Proteins and Polynucleotides Encd
; TITLE OF INVENTION: Same
; FILE REFERENCE: LEX-0186-USA
; CURRENT APPLICATION NUMBER: US/09/875,811
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; CURRENT FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: US 60/210,045
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 679
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-875-811-2

Query Match      23.8%; Score 896.5; DB 2; Length 679;
Best Local Similarity 31.9%; Pred. No. 9.3e-82;
Matches 204; Conservative 137; Mismatches 267; Indels 31; Gaps 8;

QY 93 LPVLQWLKPKYDKNQLGDMVMSGLVIGLLVPSQSTAYSLLAQEPVYGLYTSFFPFIYF 152
DB 32 LPILDWAPHYLNKENLLPDTVSGIMLAVQOVTQGLAFAYLSSVHPVFGLYGSLFPAIYYA 91
QY 153 LGLTSRHSISVGI FGVLCMLIGETVDRELQKAGYDNHAAPSLSGMVNSGTLNHTSDRIC 212
DB 92 IFGMGHVATGTFALTSLISANAVERIVPQ-----NMQLTTSQNTSVL-----GLS 138
QY 213 DKSCYAIMVGSTVTFIAGYQVAMGFQVGFVSVLSDDLSSGFTVGTASFTILTQAKYL 272
DB 139 DEFEMQRIHVAAAVSFLGVIQVAMFVLQLGSATFVVTEPVISAMTTGAATHVVTQVKYL 198
QY 273 LCLNLPRTNGVSLTITTHVFRNHNKTLNCDLITSLCLLVLLPTKELNEHFKSKLAP 332
DB 199 LCMKMPYISGPGFFIYAYVFNENIKSVRLKALLSLLSIVVLVVKELNEQFKRKIKV 258
QY 333 IPLELVVVAATLASHFGKLNHENYSSIAHGHTPTGFMPPKVPENLIPSAVADAISII 392
DB 259 LPVDLVLIASAFCVCTNMNTYGLVVGHIPQIPSPRAPPMILLSAVITEAGVALV 318
QY 393 GFAITVLSLSEMPAKKHGYTVKANQEMYAIGFCNIIIPSPFHCTTSAALAKTLVKSGTGH 452
DB 319 GYVASLALAQSAKFKFYISDDNQEFLAHGLSNVSSFFFCIPSAAMGRTAGLYSTGAK 378
QY 453 TOLSGVTVALLVLLVLLVIAPIFYSLQKSVLGVITIVNLGALRKFRDLPKMWSIRMDT 512
DB 379 TOVACLISCFILVIYAIAGPLLYLWLPKVCFLASIIIVGLKGMILIOFRDLKKYNNVDKIDW 438
QY 513 VTFVMTLSSALLSTEIGLLGVCFISIFCVILRTQKPKSSLLGLVBESEVFESVSAYKNL 572
DB 439 GIWTSVYTFICFAANVGLLFGVCTIAIVIGRP--PRANTVSIKNKEWBFKVKTEMDS 496
QY 573 QTKPGIKIPRFVAPLYYINKECFKSALYKQTVNPLIKVAKKAAKRKIKEKVTL----- 628
DB 497 ETLOQVKIISINNPLVFLNAKFF---YTDLMNMIQKENACNQPLDDISKCEONTLLNSL 552
QY 629 --CGIQDENSVOLSHDPLBLHTIVDCSAIOFLNTAGIHTLKEVRDYEAIGIOVLAAOC 686
DB 553 SNGNCNBEASQSC---PNEKCYLILDCSGFTTFDYSGVSNLVEVYVMDCKGRSDVLLAHC 609
QY 687 NPTVDSLNTNGYCKKEENLIFYSVYEAAMAEVSKNQ 725
DB 610 TASLIKAMT--YGNLDSKPIFFESVSA-AISHIHSNK 645

RESULT 13
US-10-094-749-2440
; Sequence 2440, Application US/10094749
; Patent No. 6979557
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: OTSUYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO

; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOTYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2440
; LENGTH: 651
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-2440

Query Match      22.7%; Score 855.5; DB 2; Length 651;
Best Local Similarity 27.5%; Pred. No. 1.3e-77;
Matches 194; Conservative 133; Mismatches 183; Indels 195; Gaps 8;

QY 79 QCSPAKAXNMILGFLPVLQWLKPKYDLKKNILGDMVMSGLVIGLLVPSQSTAYSLLAQEPV 138
DB 61 QCSRARAYALLQHLPLVLPVPRVDRWMLLGDLLSGLSVAIMQLPQGLAYALLAGLPPV 120
QY 139 YGLTYSFASIIYFLLGTSRHSISVGI FGVLCMLIGETVDRELQKAGYDNHAAPSLSGMV 198
DB 121 FGLYSFVPFIYFLLGTSSRRISVVL----- 146
QY 199 NGSTLLNHTSDRICDKSCYAIMVGSTVTFIAGYQVAMGFQVGFVSVLSDDLSSGFTV 258
DB 147 -----EVCWK----- 151
QY 259 GASFTILTQAKYLLGLMLPRTNGVSLTITTHVFRNHNKTLNCDLITSLCLLVLLPT 318
DB 152 -----LPQSK-VGT-----VVTAAVAGVVLVV 173
QY 319 KELNEHFKSKLKAPIPIELVVVVAATLASHFGKLNHENYSSIAHGHTPTGFMPPKVPENL 378
DB 174 KLLNDKLOOQPLMPPIPGELLTLTGATGISYGMGLKHFREVDVVGNI PAGLVPVAPNTOL 233
QY 379 IPSVAVDAIAISIIIGFAITVLSLSEMPAKKHGYTVKANQEMYAIGFCNIIIPSPFHCTTSA 438
DB 234 FSKLVGSFTIIVGVFAISLGIKISALRHGVRVDSNQELVALGSLNLIGGIFQCFPVSC 293
QY 439 ALAKTLVKESGCHTQLSGVTVALLVLLVIAPIFYSLQKSVLGVITIVNLGALRKRF 498
DB 294 SMSRLVQESTGSGNSQVAGAISSFLIILVVKLGELFHLDPKAVLAAIIIVNLKGMRLROL 353
QY 499 RDLPKMWSIRMDTVIWFVMTLSSALLSTEIGLLGVCFISIFCVILRTQKPKSSLLGLVBE 558
DB 354 SDRSLWKANRADLLIWLVTFTATILLNLDLGLVAVIFSLLLVVRTQMPHYSLVGLQVP 413
QY 559 ESEVFESVSAYKNLQTKPGIKIPRFVAPLYYINKECFKSALYKQTVNPLIKVAKKAAKRKI 615
DB 414 DTDIYRDVAEYSEAKEVRGVKVRSSATVYFANAIFYSDALKQRCQGVDFDLISQKKLL 473
QY 616 -----AAKKIKI KEKVTLGGIODEMSVQLSHDPL----- 644
DB 474 KKQEQLKLQLOKEEKLKQAAAPKXASGVSNVNTSLEDMSRNNVVEDCKQMVSSGDKMED 533
QY 645 -----ELHTIVDCSAIOFLNTAGIHTLKEVRDYEAIGI 679
DB 534 ATANGQEDSKAPDGGSTLKAALGLPQDFPSLILDLGALSFDVTLCKSLKNIHFHDFREIEV 593
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us-10-736-461-1.rai

Thu Dec 21 15:57:50 2006

Search completed: December 20, 2006, 04:59:32  
Job time : 54 secs

GenCore version 5.1.9  
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OW protein - protein search, using sw model.

Run on: December 20, 2006, 04:58:50 ; Search time 185 Seconds  
(without alignments)  
1850.356 Million cell updates/sec

Title: US-10-736-461-1  
Perfect score: 3774  
Sequence: 1 MSSSKQHNVSPPRDSAEQN.....EVSNNQKVCVPNGLSLSSD 739

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 2097797 seqs, 463214858 residues

Total number of hits satisfying chosen parameters: 2097797

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.Main:

- 1: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US07\_PUBCOMB.pep:\*
- 2: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US08\_PUBCOMB.pep:\*
- 3: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US09\_PUBCOMB.pep:\*
- 4: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US10A\_PUBCOMB.pep:\*
- 5: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US10B\_PUBCOMB.pep:\*
- 6: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US11\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3774	100.0	739	4	US-10-736-461-1
2	3769	99.9	739	4	US-10-205-823-369
3	3769	99.9	739	4	US-10-328-194A-3
4	3769	99.9	739	5	US-10-505-263-96
5	3769	99.9	739	6	US-11-051-454-369
6	3095	82.0	739	5	US-10-505-263-12
7	2561	67.9	506	3	US-09-864-761-46512
8	1853	49.1	719	5	US-10-505-263-87
9	1718	45.5	704	5	US-10-505-263-10
10	1667.5	44.2	701	3	US-09-803-670-2
11	1656.5	43.9	701	3	US-09-803-670-4
12	1627	43.1	698	5	US-10-343-903-13
13	1314.5	34.8	633	3	US-09-813-432-14
14	1314.5	34.8	633	4	US-10-174-364-14
15	1314.5	34.8	633	4	US-10-246-583-14
16	1314.5	34.8	633	4	US-10-689-832-14
17	1252	33.2	435	3	US-09-813-432-48
18	1252	33.2	435	4	US-10-174-364-48
19	1252	33.2	435	4	US-10-246-583-48
20	1252	33.2	435	4	US-10-689-832-48
21	1240	32.9	744	4	US-10-420-495-1
22	1234.5	32.7	744	4	US-10-420-495-3
23	1202	31.8	735	5	US-10-505-263-89
24	1181	31.3	780	5	US-10-631-467-3
25	1181	31.3	780	5	US-10-631-467-667
26	1181	31.3	790	4	US-10-295-027-930
27	1178	31.2	780	4	US-10-420-495-11

28	1160.5	30.7	780	5	US-10-631-467-14	Sequence 14, Appl
29	1160.5	30.7	780	5	US-10-631-467-1456	Sequence 1456, Ap
30	1149	30.4	718	4	US-10-262-511-88	Sequence 88, Appl
31	1135.5	30.1	769	5	US-10-505-263-83	Sequence 83, Appl
32	1129	29.9	778	5	US-10-505-263-81	Sequence 81, Appl
33	1124.5	29.8	758	5	US-10-505-263-6	Sequence 6, Appl
34	1123.5	29.8	735	5	US-10-505-263-8	Sequence 8, Appl
35	1110.5	29.4	788	5	US-10-505-263-85	Sequence 85, Appl
36	1104	29.3	758	5	US-10-505-263-2	Sequence 2, Appl
37	1103.5	29.2	714	3	US-09-749-589-4	Sequence 4, Appl
38	1103.5	29.2	714	5	US-10-684-532-4	Sequence 4, Appl
39	1103.5	29.2	738	5	US-10-505-263-4	Sequence 4, Appl
40	1103.5	29.2	4115	4	US-10-038-854-4	Sequence 4, Appl
41	1100.5	29.2	751	3	US-09-795-693-14	Sequence 14, Appl
42	1100.5	29.2	751	4	US-10-156-239-14	Sequence 14, Appl
43	1100.5	29.2	751	4	US-10-199-485-14	Sequence 14, Appl
44	1088.5	28.8	753	5	US-10-505-263-91	Sequence 91, Appl
45	1056.5	28.0	764	3	US-09-981-353-73	Sequence 73, Appl

ALIGNMENTS

RESULT 1  
US-10-736-461-1  
; Sequence 1, Application US/10736461  
; Publication No. US20040166517A1  
; GENERAL INFORMATION:  
; APPLICANT: Terrett, Jonathan A  
; TITLE OF INVENTION: CANCER ASSOCIATED PROTEIN  
; FILE REFERENCE: 2543-1-034  
; CURRENT APPLICATION NUMBER: US/10/736.461  
; CURRENT FILING DATE: 2003-12-15  
; PRIOR APPLICATION NUMBER: PCT/GB02/02779  
; PRIOR FILING DATE: 2002-06-14  
; PRIOR APPLICATION NUMBER: GB 0114644.8  
; PRIOR FILING DATE: 2001-06-15  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 1  
; LENGTH: 739  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-736-461-1

Query Match	100.0%	Score	3774	DB	4	Length	739
Best Local Similarity	100.0%	Pred. No.	3.7e-317				
Matches	739	Conservative	0	Mismatches	0	Indels	0
Gaps	0						
Qy	1	MSSSKQHNVSPPRDSAEQNDSPSGIHLQRESSTDFKQFETNDQCRPYHRLIERQE	60				
Db	1	MSSSKQHNVSPPRDSAEQNDSPSGIHLQRESSTDFKQFETNDQCRPYHRLIERQE	60				
Qy	61	KSDTNFKEFVKLQKNCQSPAKAKMILGFLPVLQWLPKYDLKKNILGDMVMSGLIYGI	120				
Db	61	KSDTNFKEFVKLQKNCQSPAKAKMILGFLPVLQWLPKYDLKKNILGDMVMSGLIYGI	120				
Qy	121	LLVPQSIAYSLAQGEFVGLYTSFFASIIYFLLGTSRHSISVGIFGVLCMLIGETVDREL	180				
Db	121	LLVPQSIAYSLAQGEFVGLYTSFFASIIYFLLGTSRHSISVGIFGVLCMLIGETVDREL	180				
Qy	181	QKAGYDNAHSAPSLGMVNSGTLNHTSDRI CDKSCYAIMVGSTVTFITAGYQVAMGFFQ	240				
Db	181	QKAGYDNAHSAPSLGMVNSGTLNHTSDRI CDKSCYAIMVGSTVTFITAGYQVAMGFFQ	240				
Qy	241	VGFVSIVLSDALSGFVTGASFTILTQAKYLLGLNLPRTNGVGLSITTTWTHVFNHKT	300				
Db	241	VGFVSIVLSDALSGFVTGASFTILTQAKYLLGLNLPRTNGVGLSITTTWTHVFNHKT	300				
Qy	301	NLCDLITSLCLLVLLPTKELNEHFKSKLKAPIELVVVVAATLASHFGKLNHYNSSI	360				
Db	301	NLCDLITSLCLLVLLPTKELNEHFKSKLKAPIELVVVVAATLASHFGKLNHYNSSI	360				

QY 361 AGHIPTGMPKVPKPEWNLIPSAVDAIAISIIIGFAITVSLSEMPAKKHGTYTKANQEMYA 420  
DB 361 AGHIPTGMPKVPKPEWNLIPSAVDAIAISIIIGFAITVSLSEMPAKKHGTYTKANQEMYA 420  
QY 421 IGFCNIIPSPFFHCFTTSAALAKTLVKESTGCHTQSLSGVVTALVLLVLLVIAPLFYSLOK 480  
DB 421 IGFCNIIPSPFFHCFTTSAALAKTLVKESTGCHTQSLSGVVTALVLLVLLVIAPLFYSLOK 480  
QY 481 SVLGVIITVNLRGALRFRDLPKWMSISRMDTVIWFVTMLSSALLSTEIGLLVGVCFISIF 540  
DB 481 SVLGVIITVNLRGALRFRDLPKWMSISRMDTVIWFVTMLSSALLSTEIGLLVGVCFISIF 540  
QY 541 CVILRTQPKSSLLGLVEEVEFVSAYKNLQTKPGIKIFRFVAPLYYINKCEFKSALY 600  
DB 541 CVILRTQPKSSLLGLVEEVEFVSAYKNLQTKPGIKIFRFVAPLYYINKCEFKSALY 600  
QY 601 KQTVNPILIKVAMKAAKRIKEKVTLGGIQDMSVOLSHDPLELHTIVIDCSAIOFLN 660  
DB 601 KQTVNPILIKVAMKAAKRIKEKVTLGGIQDMSVOLSHDPLELHTIVIDCSAIOFLN 660  
QY 661 TAGIHTLKEVRDYEAIGIQLVLAOCNPTVRDLSLTNGEYCKKEENLLFYSVYEAMAFAE 720  
DB 661 TAGIHTLKEVRDYEAIGIQLVLAOCNPTVRDLSLTNGEYCKKEENLLFYSVYEAMAFAE 720  
QY 721 VSKNQKGVCPVNGLSLSSD 739  
DB 721 VSKNQKGVCPVNGLSLSSD 739

## RESULT 2

US-10-205-823-369  
; Sequence 369, Application US/10205823  
; Publication No. US20030108963A1  
; GENERAL INFORMATION:  
; APPLICANT: Schlegel, Robert  
; APPLICANT: Monahan, John E.  
; APPLICANT: Endege, Wilson O.  
; APPLICANT: Gannavarapu, Manjula  
; APPLICANT: Gorbacheva, Bella  
; APPLICANT: Hoersch, Sebastian  
; APPLICANT: Kamatkar, Shubhangi  
; APPLICANT: Monsey, Angela M.  
; APPLICANT: Glatt, Karen  
; APPLICANT: Zhao, Xumei  
; APPLICANT: Anderson, Dustin  
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND  
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND  
; FILE REFERENCE: MRI-044  
; CURRENT APPLICATION NUMBER: US/10/205,823  
; PRIOR FILING DATE: 2002-07-25  
; PRIOR APPLICATION NUMBER: 60/307,982  
; PRIOR FILING DATE: 2001-07-25  
; PRIOR APPLICATION NUMBER: 60/314,356  
; PRIOR FILING DATE: 2001-08-22  
; PRIOR APPLICATION NUMBER: 60/325,020  
; PRIOR FILING DATE: 2001-09-25  
; PRIOR APPLICATION NUMBER: 60/341,746  
; PRIOR FILING DATE: 2001-12-12  
; PRIOR APPLICATION NUMBER: 60/362,158  
; PRIOR FILING DATE: 2002-03-05  
; NUMBER OF SEQ ID NOS: 455  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 369  
; LENGTH: 739  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-10-205-823-369

Query Match 99.98; Score 3769; DB 4; Length 739;  
Best Local Similarity 99.98; Pred. No. 1.1e-316;  
Matches 738; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSSESKEQHNVPDRSAEGNDSPYSGIHLELQRESSTDFKQFETNDOCRPYHRLIERQE 60  
DB 1 MSSESKEQHNVPDRSAEGNDSPYSGIHLELQRESSTDFKQFETNDOCRPYHRLIERQE 60  
QY 61 KSDTNPKFVYIKLQKNCOCSPAKAKNMILGFLPVLQWLPKYDLKKNILGDNVSGLIVGI 120  
DB 61 KSDTNPKFVYIKLQKNCOCSPAKAKNMILGFLPVLQWLPKYDLKKNILGDNVSGLIVGI 120  
QY 121 LLVPOQSIAYSLLAGQBPVGLYTSFPASIIYPLLGTSRHSISVGIFGLVCLMIGETVDREL 180  
DB 121 LLVPOQSIAYSLLAGQBPVGLYTSFPASIIYPLLGTSRHSISVGIFGLVCLMIGETVDREL 180  
QY 181 QKAGYDNAHSAPSLGMVSNSTLLNHTSDRI CDKSCYAIMVGSVTFTFIAGVYOVAMGFFQ 240  
DB 181 QKAGYDNAHSAPSLGMVSNSTLLNHTSDRI CDKSCYAIMVGSVTFTFIAGVYOVAMGFFQ 240  
QY 241 VGFVSYYLSDALLSGFVTGASFTILTQAKYLLGLNLPRTNGVGSIIITWIIHVFRIHKT 300  
DB 241 VGFVSYYLSDALLSGFVTGASFTILTQAKYLLGLNLPRTNGVGSIIITWIIHVFRIHKT 300  
QY 301 NLCDLITSLCLLVLPTKELNEHFKSLKAPIELVWVVAATLASHFGKLGHNYSI 360  
DB 301 NLCDLITSLCLLVLPTKELNEHFKSLKAPIELVWVVAATLASHFGKLGHNYSI 360  
QY 361 AGHIPTGMPKVPKPEWNLIPSAVDAIAISIIIGFAITVSLSEMPAKKHGTYTKANQEMYA 420  
DB 361 AGHIPTGMPKVPKPEWNLIPSAVDAIAISIIIGFAITVSLSEMPAKKHGTYTKANQEMYA 420  
QY 421 IGFCNIIPSPFFHCFTTSAALAKTLVKESTGCHTQSLSGVVTALVLLVLLVIAPLFYSLOK 480  
DB 421 IGFCNIIPSPFFHCFTTSAALAKTLVKESTGCHTQSLSGVVTALVLLVLLVIAPLFYSLOK 480  
QY 481 SVLGVIITVNLRGALRFRDLPKWMSISRMDTVIWFVTMLSSALLSTEIGLLVGVCFISIF 540  
DB 481 SVLGVIITVNLRGALRFRDLPKWMSISRMDTVIWFVTMLSSALLSTEIGLLVGVCFISIF 540  
QY 541 CVILRTQPKSSLLGLVEEVEFVSAYKNLQTKPGIKIFRFVAPLYYINKCEFKSALY 600  
DB 541 CVILRTQPKSSLLGLVEEVEFVSAYKNLQTKPGIKIFRFVAPLYYINKCEFKSALY 600  
QY 601 KQTVNPILIKVAMKAAKRIKEKVTLGGIQDMSVOLSHDPLELHTIVIDCSAIOFLN 660  
DB 601 KQTVNPILIKVAMKAAKRIKEKVTLGGIQDMSVOLSHDPLELHTIVIDCSAIOFLN 660  
QY 661 TAGIHTLKEVRDYEAIGIQLVLAOCNPTVRDLSLTNGEYCKKEENLLFYSVYEAMAFAE 720  
DB 661 TAGIHTLKEVRDYEAIGIQLVLAOCNPTVRDLSLTNGEYCKKEENLLFYSVYEAMAFAE 720  
QY 721 VSKNQKGVCPVNGLSLSSD 739  
DB 721 VSKNQKGVCPVNGLSLSSD 739

## RESULT 3

US-10-328-194A-3  
; Sequence 3, Application US/10328194A  
; Publication No. US20030194728A1  
; GENERAL INFORMATION:  
; APPLICANT: Klien, Stefanie  
; APPLICANT: Koshiy, Beena  
; APPLICANT: Tanguay, Debra  
; TITLE OF INVENTION: HAPLOTYPES OF THE SLC26A2 GENE  
; FILE REFERENCE: MWH 0849US  
; CURRENT APPLICATION NUMBER: US/10/328,194A  
; CURRENT FILING DATE: 2002-12-23  
; PRIOR APPLICATION NUMBER: PCT/US01/20028  
; PRIOR FILING DATE: 2001-06-22  
; PRIOR APPLICATION NUMBER: US 60/213,284  
; PRIOR FILING DATE: 2000-06-22  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 3  
; LENGTH: 739

; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-328-194A-3

Query Match 99.9%; Score 3769; DB 4; Length 739;  
Best Local Similarity 99.9%; Pred. No. 1.1e-316;  
Matches 738; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MSSEKQHNVSPRDSAEAGNDSPSGIHLELQRESSTDFKQFETNDQCRPHRILIERQE 60  
Db 1 MSSEKQHNVSPRDSAEAGNDSPSGIHLELQRESSTDFKQFETNDQCRPHRILIERQE 60  
Qy 61 KSDTNFKEFVTKLQKNCQCPAKAKNMILGFLPVLQWPKYDLKKNILGDMVMSGLI VGI 120  
Db 61 KSDTNFKEFVTKLQKNCQCPAKAKNMILGFLPVLQWPKYDLKKNILGDMVMSGLI VGI 120  
Qy 121 LLVPOSTAYSLLAQEPVGYLTFFASIIYFLGTSRHSISVGIFGVLCMLIGETVDREL 180  
Db 121 LLVPOSTAYSLLAQEPVGYLTFFASIIYFLGTSRHSISVGIFGVLCMLIGETVDREL 180  
Qy 181 QKAGYDNAHSAPSLGMVNSGSTLNHTSDRICSKSCYAIMVGSTVTFIAGVYQVAMGPFQ 240  
Db 181 QKAGYDNAHSAPSLGMVNSGSTLNHTSDRICSKSCYAIMVGSTVTFIAGVYQVAMGPFQ 240  
Qy 241 VGFVSVYLSALLSGFVTGASFTILTQAKYLLGLNLPRTNVGVSLITTWIHFVFNHKT 300  
Db 241 VGFVSVYLSALLSGFVTGASFTILTQAKYLLGLNLPRTNVGVSLITTWIHFVFNHKT 300  
Qy 301 NLCDLITSLCLLVLLPTKELNEHFKSKLAPIELVVVAATLASHFGKLEHYNSSI 360  
Db 301 NLCDLITSLCLLVLLPTKELNEHFKSKLAPIELVVVAATLASHFGKLEHYNSSI 360  
Qy 361 AGHPTGFMPPKVPENNLIPSAVDAIAISIIIGFAITVSLSEMPAKKHGYTVKANQMYA 420  
Db 361 AGHPTGFMPPKVPENNLIPSAVDAIAISIIIGFAITVSLSEMPAKKHGYTVKANQMYA 420  
Qy 421 IGFCNIIIPSPFHCTTSAALAKTLVKESTGCHTQSLSGVVTALVLLVLLVIAPIFYSLQK 480  
Db 421 IGFCNIIIPSPFHCTTSAALAKTLVKESTGCHTQSLSGVVTALVLLVLLVIAPIFYSLQK 480  
Qy 481 SVLGVIITVNLRGALRKFRDLPKMWISIRMDTVIWFVTMLSSALLSTEIGLLVGVCSIF 540  
Db 481 SVLGVIITVNLRGALRKFRDLPKMWISIRMDTVIWFVTMLSSALLSTEIGLLVGVCSIF 540  
Qy 541 CVILRTQKPSLLGLVESEVFSVSAKYNLQTKPGIKIPRFVAPLYYINKECFKSALY 600  
Db 541 CVILRTQKPSLLGLVESEVFSVSAKYNLQTKPGIKIPRFVAPLYYINKECFKSALY 600  
Qy 601 KQTVNPILIKVAKKAAKRKIKEKVVTLLGGIODEMSVOLSHDPLELHTIVIDCSAIOFLN 660  
Db 601 KQTVNPILIKVAKKAAKRKIKEKVVTLLGGIODEMSVOLSHDPLELHTIVIDCSAIOFLN 660  
Qy 661 TAGIHTLKEVRDYEAGIOVLLAQCNPTVRDSTLNGEYCKKEBENLLFYSVYEMAFAE 720  
Db 661 TAGIHTLKEVRDYEAGIOVLLAQCNPTVRDSTLNGEYCKKEBENLLFYSVYEMAFAE 720  
Qy 721 VSKNQKVCVPNGLSLSSD 739  
Db 721 VSKNQKVCVPNGLSLSSD 739

RESULT 4

US-10-505-263-96  
; Sequence 96, Application US/10505263  
; Publication No. US20060014940A1  
; GENERAL INFORMATION:  
; APPLICANT: Vanderbilt University  
; APPLICANT: Case Western Reserve University  
; APPLICANT: The Brigham and Women's Hospital, Inc.  
; APPLICANT: Mount, David B  
; APPLICANT: Romero, Michael  
; TITLE OF INVENTION: CLONING AND CHARACTERIZATION OF SLC26A6, SLC26A1, and SLC26A2  
; TITLE OF INVENTION: ANION EXCHANGERS

RESULT 5

; FILE REFERENCE: 1242/50/2 PCT/US  
; CURRENT APPLICATION NUMBER: US/10/505,263  
; PRIOR FILING DATE: 2004-08-20  
; PRIOR APPLICATION NUMBER: US 60/360,275  
; PRIOR FILING DATE: 2002-02-28  
; PRIOR APPLICATION NUMBER: PCT/US03/06469  
; PRIOR FILING DATE: 2003-02-28  
; NUMBER OF SEQ ID NOS: 96  
; SOFTWARE: Patent in version 3.2  
; LENGTH: 739  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-505-263-96  
Query Match 99.9%; Score 3769; DB 5; Length 739;  
Best Local Similarity 99.9%; Pred. No. 1.1e-316;  
Matches 738; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MSSEKQHNVSPRDSAEAGNDSPSGIHLELQRESSTDFKQFETNDQCRPHRILIERQE 60  
Db 1 MSSEKQHNVSPRDSAEAGNDSPSGIHLELQRESSTDFKQFETNDQCRPHRILIERQE 60  
Qy 61 KSDTNFKEFVTKLQKNCQCPAKAKNMILGFLPVLQWPKYDLKKNILGDMVMSGLI VGI 120  
Db 61 KSDTNFKEFVTKLQKNCQCPAKAKNMILGFLPVLQWPKYDLKKNILGDMVMSGLI VGI 120  
Qy 121 LLVPOSTAYSLLAQEPVGYLTFFASIIYFLGTSRHSISVGIFGVLCMLIGETVDREL 180  
Db 121 LLVPOSTAYSLLAQEPVGYLTFFASIIYFLGTSRHSISVGIFGVLCMLIGETVDREL 180  
Qy 181 QKAGYDNAHSAPSLGMVNSGSTLNHTSDRICSKSCYAIMVGSTVTFIAGVYQVAMGPFQ 240  
Db 181 QKAGYDNAHSAPSLGMVNSGSTLNHTSDRICSKSCYAIMVGSTVTFIAGVYQVAMGPFQ 240  
Qy 241 VGFVSVYLSALLSGFVTGASFTILTQAKYLLGLNLPRTNVGVSLITTWIHFVFNHKT 300  
Db 241 VGFVSVYLSALLSGFVTGASFTILTQAKYLLGLNLPRTNVGVSLITTWIHFVFNHKT 300  
Qy 301 NLCDLITSLCLLVLLPTKELNEHFKSKLAPIELVVVAATLASHFGKLEHYNSSI 360  
Db 301 NLCDLITSLCLLVLLPTKELNEHFKSKLAPIELVVVAATLASHFGKLEHYNSSI 360  
Qy 361 AGHPTGFMPPKVPENNLIPSAVDAIAISIIIGFAITVSLSEMPAKKHGYTVKANQMYA 420  
Db 361 AGHPTGFMPPKVPENNLIPSAVDAIAISIIIGFAITVSLSEMPAKKHGYTVKANQMYA 420  
Qy 421 IGFCNIIIPSPFHCTTSAALAKTLVKESTGCHTQSLSGVVTALVLLVLLVIAPIFYSLQK 480  
Db 421 IGFCNIIIPSPFHCTTSAALAKTLVKESTGCHTQSLSGVVTALVLLVLLVIAPIFYSLQK 480  
Qy 481 SVLGVIITVNLRGALRKFRDLPKMWISIRMDTVIWFVTMLSSALLSTEIGLLVGVCSIF 540  
Db 481 SVLGVIITVNLRGALRKFRDLPKMWISIRMDTVIWFVTMLSSALLSTEIGLLVGVCSIF 540  
Qy 541 CVILRTQKPSLLGLVESEVFSVSAKYNLQTKPGIKIPRFVAPLYYINKECFKSALY 600  
Db 541 CVILRTQKPSLLGLVESEVFSVSAKYNLQTKPGIKIPRFVAPLYYINKECFKSALY 600  
Qy 601 KQTVNPILIKVAKKAAKRKIKEKVVTLLGGIODEMSVOLSHDPLELHTIVIDCSAIOFLN 660  
Db 601 KQTVNPILIKVAKKAAKRKIKEKVVTLLGGIODEMSVOLSHDPLELHTIVIDCSAIOFLN 660  
Qy 661 TAGIHTLKEVRDYEAGIOVLLAQCNPTVRDSTLNGEYCKKEBENLLFYSVYEMAFAE 720  
Db 661 TAGIHTLKEVRDYEAGIOVLLAQCNPTVRDSTLNGEYCKKEBENLLFYSVYEMAFAE 720  
Qy 721 VSKNQKVCVPNGLSLSSD 739  
Db 721 VSKNQKVCVPNGLSLSSD 739

US-11-051-454-369  
 ; Sequence 369, Application US/11051454  
 ; Publication No. US20050191673A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Schlegel, Robert  
 ; APPLICANT: Monahan, John E.  
 ; APPLICANT: Endege, Wilson O.  
 ; APPLICANT: Gannavarapu, Manjula  
 ; APPLICANT: Gorbacheva, Bella  
 ; APPLICANT: Hoersch, Sebastian  
 ; APPLICANT: Kamatkar, Shubhangi  
 ; APPLICANT: Monsey, Angela M.  
 ; APPLICANT: Glatt, Karen  
 ; APPLICANT: Zhao, Xumei  
 ; APPLICANT: Anderson, Dustin  
 ; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND  
 ; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND  
 ; TITLE OF INVENTION: THERAPY OF PROSTATE CANCER  
 ; FILE REFERENCE: MRI-044  
 ; CURRENT APPLICATION NUMBER: US/11/051,454  
 ; PRIOR FILING DATE: 2005-02-04  
 ; PRIOR APPLICATION NUMBER: US/10/205,823  
 ; PRIOR FILING DATE: 2002-07-25  
 ; PRIOR APPLICATION NUMBER: 60/307,982  
 ; PRIOR FILING DATE: 2001-07-25  
 ; PRIOR APPLICATION NUMBER: 60/314,356  
 ; PRIOR FILING DATE: 2001-08-22  
 ; PRIOR APPLICATION NUMBER: 60/325,020  
 ; PRIOR FILING DATE: 2001-09-25  
 ; PRIOR APPLICATION NUMBER: 60/341,746  
 ; PRIOR FILING DATE: 2001-12-12  
 ; PRIOR APPLICATION NUMBER: 60/362,158  
 ; PRIOR FILING DATE: 2002-03-05  
 ; NUMBER OF SEQ ID NOS: 455  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 369  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-11-051-454-369

Query Match 99.9%; Score 3769; DB 6; Length 739;  
 Best Local Similarity 99.9%; Pred. No. 1.1e-316;  
 Matches 738; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 MSSEKQHNVS PRDS AEGNDSYPSGHLLEQRESSTDFKQFETNDQCRPYHRLIERQE 60  
 DB 1 MSSEKQHNVS PRDS AEGNDSYPSGHLLEQRESSTDFKQFETNDQCRPYHRLIERQE 60  
 QY 61 KSDTNFKFVVKLQKNCQCSAPAKNMILGFLPVLQWLPKYDLKKNILGDMVMSGLIVGI 120  
 DB 61 KSDTNFKFVVKLQKNCQCSAPAKNMILGFLPVLQWLPKYDLKKNILGDMVMSGLIVGI 120  
 QY 121 LVPQSIAYSLLAGQEPVGLYTSFFASIIYFLGTSRHSISVGFGLCLMIGETVDREL 180  
 DB 121 LVPQSIAYSLLAGQEPVGLYTSFFASIIYFLGTSRHSISVGFGLCLMIGETVDREL 180  
 QY 181 QKAGYDHAAPS LGVMSNGSTLLNHTSDRICKSCYAIWGSTVTFIAGVYQVAMGFFQ 240  
 DB 181 QKAGYDHAAPS LGVMSNGSTLLNHTSDRICKSCYAIWGSTVTFIAGVYQVAMGFFQ 240  
 QY 241 VGFVSVYLS DALLSGFVTGASFTILTSQAKYLLGLNLPRTNGVSGSLITTWIHFVFRNIHKT 300  
 DB 241 VGFVSVYLS DALLSGFVTGASFTILTSQAKYLLGLNLPRTNGVSGSLITTWIHFVFRNIHKT 300  
 QY 301 NLCDLTSLLCLVLLPTKELNEHFKSKLAPIELVWVVAATLASHFGKLNENYSSI 360  
 DB 301 NLCDLTSLLCLVLLPTKELNEHFKSKLAPIELVWVVAATLASHFGKLNENYSSI 360  
 QY 361 AGHIPGFMPPKVPENWNLIPSAVDAIAISIIIGFAITVLSLSEMFAKKHGHTVKANQEMYA 420  
 DB 361 AGHIPGFMPPKVPENWNLIPSAVDAIAISIIIGFAITVLSLSEMFAKKHGHTVKANQEMYA 420

QY 421 IGFCNIIPSFPHCFHTTSAALAKTLVKESTGCHTQSLSGVWTALVLLLVLLVIAPLFYSLQK 480  
 DB 421 IGFCNIIPSFPHCFHTTSAALAKTLVKESTGCHTQSLSGVWTALVLLLVLLVIAPLFYSLQK 480  
 QY 481 SVLGVTITVNLRGALRKPRDLPKMWSISRMDTVIWFVTWMLSSALLSTELGLLVGVCFSPF 540  
 DB 481 SVLGVTITVNLRGALRKPRDLPKMWSISRMDTVIWFVTWMLSSALLSTELGLLVGVCFSPF 540  
 QY 541 CVILRTQPKSSLLGLVESEVFESVSAYKNLQTKPGIKIFRVPAPLYYINKECPKSAFY 600  
 DB 541 CVILRTQPKSSLLGLVESEVFESVSAYKNLQTKPGIKIFRVPAPLYYINKECPKSAFY 600  
 QY 601 KOTVNPILIKVAKWAKKAKIKIKVQVTLGGIODEMSVQLSHDPLELHTTVIDCSAIOFLN 660  
 DB 601 KOTVNPILIKVAKWAKKAKIKIKVQVTLGGIODEMSVQLSHDPLELHTTVIDCSAIOFLN 660  
 QY 661 TAGIHTLKEVRDYEAIGIQVLLAOCNPVRDSLTNGEYCKKEENLLFYVYENAMFAE 720  
 DB 661 TAGIHTLKEVRDYEAIGIQVLLAOCNPVRDSLTNGEYCKKEENLLFYVYENAMFAE 720  
 QY 721 VSKNQKGVGVCPNGLSLSSD 739  
 DB 721 VSKNQKGVGVCPNGLSLSSD 739  
 RESULT 6  
 US-10-505-263-12  
 ; Sequence 12, Application US/10505263  
 ; Publication No. US20060014940A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Vanderbilt University  
 ; APPLICANT: Case Western Reserve University  
 ; APPLICANT: The Brigham and Women's Hospital, Inc.  
 ; APPLICANT: Mount, David B  
 ; APPLICANT: Romero, Michael  
 ; TITLE OF INVENTION: CLONING AND CHARACTERIZATION OF SLC26A6, SLC26A1, and SLC26A2  
 ; TITLE OF INVENTION: ANION EXCHANGERS  
 ; FILE REFERENCE: 1242/50/2 PCT/US  
 ; CURRENT APPLICATION NUMBER: US/10/505,263  
 ; CURRENT FILING DATE: 2004-08-20  
 ; PRIOR APPLICATION NUMBER: US 60/360,275  
 ; PRIOR FILING DATE: 2002-02-28  
 ; PRIOR APPLICATION NUMBER: PCT/US03/06469  
 ; PRIOR FILING DATE: 2003-02-28  
 ; NUMBER OF SEQ ID NOS: 96  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO 12  
 ; TYPE: PRT  
 ; ORGANISM: Mus musculus  
 US-10-505-263-12  
 Query Match 82.0%; Score 3095; DB 5; Length 739;  
 Best Local Similarity 80.8%; Pred. No. 2.3e-258;  
 Matches 597; Conservative 68; Mismatches 74; Indels 0; Gaps 0;  
 QY 1 MSSEKQHNVS PRDS AEGNDSYPSGHLLEQRESSTDFKQFETNDQCRPYHRLIERQE 60  
 DB 1 MSSEKQHNVS PRDS AEGNDSYPSGHLLEQRESSTDFKQFETNDQCRPYHRLIERQE 60  
 QY 61 KSDTNFKFVVKLQKNCQCSAPAKNMILGFLPVLQWLPKYDLKKNILGDMVMSGLIVGI 120  
 DB 61 KSDTNFKFVVKLQKNCQCSAPAKNMILGFLPVLQWLPKYDLKKNILGDMVMSGLIVGI 120  
 QY 121 LVPQSIAYSLLAGQEPVGLYTSFFASIIYFLGTSRHSISVGFGLCLMIGETVDREL 180  
 DB 121 LVPQSIAYSLLAGQEPVGLYTSFFASIIYFLGTSRHSISVGFGLCLMIGETVDREL 180  
 QY 181 QKAGYDHAAPS LGVMSNGSTLLNHTSDRICKSCYAIWGSTVTFIAGVYQVAMGFFQ 240  
 DB 181 QKAGYDHAAPS LGVMSNGSTLLNHTSDRICKSCYAIWGSTVTFIAGVYQVAMGFFQ 240  
 QY 241 VGFVSVYLS DALLSGFVTGASFTILTSQAKYLLGLNLPRTNGVSGSLITTWIHFVFRNIHKT 300

Db 241 VGFVSVDALLSGFVTGASTILTSQAKYLLGLSLPRSHGVGVITWTHIFNRINT 300  
Qy 301 NLCDLITSLCLLVLPTELNEHFKSLKAPIPIELVVVAATLASHFGKLNHYNSSI 360  
Db 301 NICDLITSLCLLVLPTELNEHFKSLKAPIPIELVVVAATLASHFGKLNHYNSSI 360  
Qy 361 AGHPTGMPKPKVPMNLIIPSAVDAIAISIIIGFAITVSLSEMFAPKKGHTYTKANOEMYA 420  
Db 361 AGHPTGMPKPKVPMNLIIPSAVDAIAISIIIGFAITVSLSEMFAPKKGHTYTKANOEMYA 420  
Qy 421 IGFCNIIISFFHCFTTSAALAKTLVKESTGCHTQSLSGVVTALVLLVLLVVIAPLFSYLOK 480  
Db 421 IGFCNIIISFFHCFTTSAALAKTLVKESTGCHTQSLSGVVTALVLLVLLVVIAPLFSYLOK 480  
Qy 481 SVLGVTITVNLRGALRKFRDLPKMWISIRMDTVIMFVTMLSSALLSTIGLLGVCFPSIF 540  
Db 481 SVLGVTITVNLRGALRKFRDLPKMWISIRMDTVIMFVTMLSSALLSTIGLLGVCFPSIF 540  
Qy 541 CVILRTQKPSLLGLVESEVFESVSAVKNLQTKPGIKIFRVPAPLYIINKECFKSAFY 600  
Db 541 CVILRTQKPSLLGLVESEVFESVSAVKNLQTKPGIKIFRVPAPLYIINKECFKSAFY 600  
Qy 601 KOTVNPILI KVAKKAARKKIKEKVYTLGGIODEMSVOLSHDPLELHTIVIDCSAIOFLN 660  
Db 601 KALNPVLVKAARKKAARKKEENVITFRGDPDEVMSQLSDPLEVHTIVIDCSAIOFLD 660  
Qy 661 TAGIHTLKEVRDYEAGIQVLLAQCNPTVRDSLNTNGEYCKKEENLLFYSVYAMAPAE 720  
Db 661 TAGIHTLKEVRDYEAGIQVLLAQCNPTVRDSLNTNGEYCKKEENLLFYSVYAMAPAE 720  
Qy 721 VSKNQKGVCPVNGLSLSSD 739  
Db 721 DSONQKGVCPVNGLSLSD 739

## RESULT 7

US-09-864-761-46512  
; Sequence 46512, Application US/09864761  
; Patent No. US2002048763A1  
; GENERAL INFORMATION:  
; APPLICANT: Penn, Sharron G.  
; APPLICANT: Rank, David R.  
; APPLICANT: Hanzel, David K.  
; APPLICANT: Chen, Wensheng  
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
; FILE REFERENCE: Aecm1ca-X-1  
; CURRENT APPLICATION NUMBER: US/09/864,761  
; CURRENT FILING DATE: 2001-05-23  
; PRIOR APPLICATION NUMBER: US 60/180,312  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 09/632,366  
; PRIOR FILING DATE: 2000-08-03  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663

; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00662  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 60/234,687  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 09/608,408  
; PRIOR FILING DATE: 2000-06-30  
; PRIOR APPLICATION NUMBER: US 09/774,203  
; PRIOR FILING DATE: 2001-01-29  
; NUMBER OF SEQ ID NOS: 49117  
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1  
; SEQ ID NO 46512  
; LENGTH: 506  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: MAP TO AC011406.1  
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 5.3  
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 0.97  
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.2  
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1  
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.93  
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.8  
; OTHER INFORMATION: EST HUMAN HIT: A1557282.1, SIGNAL = 1.5  
; OTHER INFORMATION: SWISSPROT HIT: P50443, EVALUATION 1.00e-54  
US-09-864-761-46512

Query Match 67.9%; Score 2561; DB 3; Length 506;  
Best Local Similarity 99.8%; Pred. No. 2.1e-212;  
Matches 505; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
Qy 234 VAMGFFQGVFVSVDALLSGFVTGASTILTSQAKYLLGLNLPRNGVGLTTHV 293  
Db 1 VAMGFFQGVFVSVDALLSGFVTGASTILTSQAKYLLGLNLPRNGVGLTTHV 60  
Qy 294 FRNHTNLCDLITSLCLLVLPTELNEHFKSLKAPIPIELVVVAATLASHFGKLN 353  
Db 61 FRNHTNLCDLITSLCLLVLPTELNEHFKSLKAPIPIELVVVAATLASHFGKLN 120  
Qy 354 ENYNSIAGHIPGFMPPKVPENLIPSAVDAIAISIIIGFAITVSLSEMFAPKKGHTYTK 413  
Db 121 ENYNSIAGHIPGFMPPKVPENLIPSAVDAIAISIIIGFAITVSLSEMFAPKKGHTYTK 180  
Qy 414 ANQEMVAIGFCNIIIPSFHCFTTSAALAKTLVKESTGCHTQSLSGVVTALVLLVLIAP 473  
Db 181 ANQEMVAIGFCNIIIPSFHCFTTSAALAKTLVKESTGCHTQSLSGVVTALVLLVLIAP 240  
Qy 474 LFYSLOKSVLGVTITVNLRGALRKFRDLPKMWISIRMDTVIMFVTMLSSALLSTIGLLV 533  
Db 241 LFYSLOKSVLGVTITVNLRGALRKFRDLPKMWISIRMDTVIMFVTMLSSALLSTIGLLV 300  
Qy 534 GVCFSIFCVILRTQKPSLLGLVESEVFESVSAVKNLQTKPGIKIFRVPAPLYIINKE 593  
Db 301 GVCFSIFCVILRTQKPSLLGLVESEVFESVSAVKNLQTKPGIKIFRVPAPLYIINKE 360  
Qy 594 CFKSAFYKQTVNPILIKVAKKAARKKIKEKVYTLGGIODEMSVOLSHDPLELHTIVIDC 653  
Db 361 CFKSAFYKQTVNPILIKVAKKAARKKIKEKVYTLGGIODEMSVOLSHDPLELHTIVIDC 420  
Qy 654 SAIOFLNTAGIHTLKEVRDYEAGIQVLLAQCNPTVRDSLNTNGEYCKKEENLLFYSVY 713  
Db 421 SAIOFLNTAGIHTLKEVRDYEAGIQVLLAQCNPTVRDSLNTNGEYCKKEENLLFYSVY 480  
Qy 714 EAMAFAEVSKNQKGVCPVNGLSLSSD 739  
Db 481 EAMAFAEVSKNQKGVCPVNGLSLSSD 506



## RESULT 8

US-10-505-263-87  
; Sequence 87, Application US/10505263  
; Publication No. US20060014940A1  
; GENERAL INFORMATION:  
; APPLICANT: Vanderbilt University  
; APPLICANT: Case Western Reserve University  
; APPLICANT: The Brigham and Women's Hospital, Inc.  
; APPLICANT: Mount, David B  
; APPLICANT: Romero, Michael  
; TITLE OF INVENTION: CLONING AND CHARACTERIZATION OF SLC26A6, SLC26A1, and SLC26A2  
; TITLE OF INVENTION: ANION EXCHANGERS  
; FILE REFERENCE: 1242/50/2 PCT/US  
; CURRENT APPLICATION NUMBER: US/10/505,263  
; CURRENT FILING DATE: 2004-08-20  
; PRIOR APPLICATION NUMBER: US 60/360,275  
; PRIOR FILING DATE: 2002-02-28  
; PRIOR APPLICATION NUMBER: PCT/US03/06469  
; PRIOR FILING DATE: 2003-02-28  
; NUMBER OF SEQ ID NOS: 96  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 87  
; LENGTH: 719  
; TYPE: PRT  
; ORGANISM: Xenopus laevis  
US-10-505-263-87

Query Match 49.1%; Score 1853; DB 5; Length 719;  
Best Local Similarity 50.8%; Pred. No. 6.4e-151; Indels 32; Gaps 8;  
Matches 364; Conservative 139; Mismatches 181;

QY 25 SGHLELORESSTDFKQFETNDQCPYHILEROEKSDTNFKEFVIKKLQKNCQSPAK 84  
DB 3 NAVNMKYREQS-----KMEDESOHTLHLERKATNRVSLCKTVKAKVKQCTCNSQ 55

QY 85 AKNMILGFLVPLQWPKYDLKKNLGDVMSGLIIVGILVQSIAYSLLAGQEPVGLYTS 144  
DB 56 LKKTGTFPPVLRWLPKYDFKENTGDMVMSGLIIGIILVPOAIAYSLLAGLKPISLYTS 115

QY 145 FFASTIYFLGTSRHLSVGIQVGLCMIGBTVDRELQKAGYD-NAHSAFSLGVMSNGSTL 203  
DB 116 FFASTIYFLGTSRHLSVGIQVGLCMIGBTVDRELQKAGYD-NAHSAFSLGVMSNGSTL 173

QY 204 LNHT-----SDRICDKSCVAIMVGTSTVTFIAGVYOVAMGFFOVGVSVYLSDALIS 254  
DB 174 LNITRSINISMGMLDIECKECVAVISAALLFTAGIYQVINGSFRLGFLMYLSEPMLD 233

QY 255 GFVTGASFTILTSQAKYLLGLNLPRTNVGVSLITTWIHFVNRHNTKNCOLITSLCLLV 314  
DB 234 GPATGASLTILTAQVKYLLGIKIPRSPGIGMLVTWYNTFANIHSNYCDIITSATCIAY 293

QY 315 LPTKELNEHFYSKLKAPIDIELVVVVAATLASHFCKLHENYNSSTAGHIPTEGMPKYP 374  
DB 294 LVAKEIGORYKEKIKIPLTELVVIVATVWSHYCNLKEVGSVGVIPGTFIPQVP 353

QY 375 EWNLPISVAVDAIAISIIIFAITVLSSEMFAXKHGYTVKANOEYAIAGFCNIIIPSFHCF 434  
DB 354 NFSLFGKIADAIPLAVISFAPFISLSEMFAXKYATVEANQEMPAIGFCNIIIPSFHCF 413

QY 435 TTSAAALAKTLVKESTCHTQSLGVVTVALLVLLVLIAPLFYSLOKSLGVITVNLRG 494  
DB 414 ATSAALAKTLVKTSTGCMQVSSVIAIVVLLVLLFAPLFYSLOKSLGVITVNLRG 473

QY 495 LRKFRDLPKWMSIRMDTWFVFTVMSALLSTPEIGLLVGVCFISFCVILRTQKPKSSLL 554  
DB 474 LRKFRDLPLWNLKIDAVVWCVTVAALVSTVEGVMGVIFSMCLILRSQLPPTTML 533

QY 555 GLVEESEVFESVAYKNLOTKPGIKIFRFVAPLYINKECFKSALYKQ-TVNPIILKIAM 613  
DB 534 NQIEDTVFVEDCQKYDNLPLPKVKIFRENSPLHYANKGYFLKALPKMAAMDPLVNAQR 593

QY 614 KK-----AAKRIKEKVTLGGIQDENSVQLSHDPLSLHTIVIDCSAIOFLNTAGIHT 666  
DB 614 KK-----AAKRIKEKVTLGGIQDENSVQLSHDPLSLHTIVIDCSAIOFLNTAGIHT 666

DB 594 KMEKKAKVQKQKQVDAANNLG--YGTQIETELVEKRNLDLQTIILDCSCIAFLDITGMV 651  
QY 657 LKEVRDYEAICIQVLLAQCNPTVRDSLTNGEYCKKEEN---LLFYSVYEAMAPA 719  
DB 652 LKGLLDKYKEVQSVLLACCSTSVIDSILRGYFGKENSIDHKLFPYTVHDAVQFA 707

RESULT 9  
US-10-505-263-10  
; Sequence 10, Application US/10505263  
; Publication No. US20060014940A1  
; GENERAL INFORMATION:  
; APPLICANT: Vanderbilt University  
; APPLICANT: Case Western Reserve University  
; APPLICANT: The Brigham and Women's Hospital, Inc.  
; APPLICANT: Mount, David B  
; APPLICANT: Romero, Michael  
; TITLE OF INVENTION: CLONING AND CHARACTERIZATION OF SLC26A6, SLC26A1, and SLC26A2  
; TITLE OF INVENTION: ANION EXCHANGERS  
; FILE REFERENCE: 1242/50/2 PCT/US  
; CURRENT APPLICATION NUMBER: US/10/505,263  
; CURRENT FILING DATE: 2004-08-20  
; PRIOR APPLICATION NUMBER: US 60/360,275  
; PRIOR FILING DATE: 2002-02-28  
; PRIOR APPLICATION NUMBER: PCT/US03/06469  
; PRIOR FILING DATE: 2003-02-28  
; NUMBER OF SEQ ID NOS: 96  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 10  
; LENGTH: 704  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-10-505-263-10

Query Match 45.5%; Score 1718; DB 5; Length 704;  
Best Local Similarity 48.2%; Pred. No. 3e-139;  
Matches 334; Conservative 145; Mismatches 182; Indels 32; Gaps 7;

QY 54 ILIERQEKSDTNFKEFVIKKLQKNCQSPAKAKNMILGFLVPLQWPKYDLKKNILGDV 113  
DB 15 VLVRPPVPSQGLLETLKARLKSCCTCSMPCAQALVQGLFPAIHWLPQYRLKEYLAGDV 74

QY 114 SGLIVGILLVQSIAYSLLAGQEPVGLYTSFFASIIIFLLGTSRHLSVIGFVGLCMIG 173  
DB 75 SGLVIGIILVPOAIAYSLLAGLQPIYSLYTSFFANLIYFLMGTSRHVNGVIFSLCLMVG 134

QY 174 ETVDRELQKAGYDNAHSAFSLGVMSNGSTLNLNHTSDRI-----CDKSCVAIMVGTSTVTFI 228  
DB 135 QVVDRELQAGFD--PSODSLGPKNNDSTLNNSTATLLIGLQDCRDCYAIRVATALTUM 192

QY 229 AGVYOVAMGFFQVGVSVYLSDALISGFVTGASFTILTSQAKYLLGLNLPRTNVGVSLIT 288  
DB 193 AGLVQVLMGILRLGFVSTYLSQPLLDGFAMGASVTILTSQAKHMLGVQIPRHQGLGMVH 252

QY 289 TWIHFVNRHNTKNCOLITSLCLLVLLPTEKELNEHFYSKLKAPIDIELVVVVAATLASH 348  
DB 253 TWLSLQVNGOANICDVVTSALCLGVLLAAKELSDRYRHLKVPITPELFLVIVATVISH 312

QY 349 FCKLHENYNSSTAGHIPTEGMPKYPENWLPISVAVDAIAISIIIFAITVLSSEMFAXKH 408  
DB 313 FQQLHTRFDSRVAGNIPGTFVAPQVDPKIMRWVALDVALVLSAFSISLAEMFARSH 372

QY 409 GYTVKANOEYAIAGFCNIIIPSFHCFITTSAAALAKTLVKESTCHTQSLGVVTVALLV 468  
DB 373 GYSVANOEALLAVGCCNVLPAFFHCFATSAALSCTLVKIATGCTQSLSVSAAVVLLVL 432

QY 469 LVIAPLFYSLOKSLGVITVNLRGALRKFRDLPKWMSIRMDTWFVFTVMSALLSTPE 528  
DB 433 LVLAFLFDLQRCVLACIIVSVLRGALRKFRDLPKWMSIRMDTWFVFTVMSALLSTPE 492

QY 529 IGLLVGVCFISFCVILRTQKPKSSLLGLVEESEVFESVAYKNLOTKPGIKIFRFVAPLY 588  
DB 493 AGLLAGVFFSLLSLAGRTQRPRAALLARIGDSTTFYEDAAEFGLLPPEVFRFTGP 552



QY 596 KSALYKQTVNPIILIKVAMKAAKRKI--KEKVVTLGG-IQDE---MSVOLSHDPLE--L 646  
DB 555 LOSLSYSLTGLD-----AGCWAARRKEGGSETGVGEGPAQGEDLGPVSTRAALVPAAGF 609  
QY 647 HTIVIDCSAIOFLNTAGIHTLKEVRDYEAIGIQLVLAOCNPTVRDSLTNGEYCKK---- 702  
DB 610 HTWIDCAPLLFLDAAGVSTLQDLRRDYDALGALGILLSLACCSPVVRDILSRGGFLGEGPGD 669  
QY 703 -BEENLLFYSVYEMAF 719  
DB 670 TAEEOQLFLSVHDAVOTA 687

RESULT 12  
US-10-343-903-13  
; Sequence 13, Application US/10343903  
; Publication No. US20040224911A1  
; GENERAL INFORMATION:  
; APPLICANT: INCYTE GENOMICS, INC.; YUE, Henry;  
; APPLICANT: THORNTON, Michael; RAMKUNAR, Jayalaxmi;  
; APPLICANT: TANG, Y. Tom; AZINZAI, Yalda;  
; APPLICANT: BAUGHN, Mariah R.; YANG, Junning;  
; APPLICANT: YAO, Monique G.; LAL, Preeti G.;  
; APPLICANT: CHAWLA, Narinder K.; GANDHI, Ameena R.;  
; APPLICANT: HAFALIA, April J.A.; NGUYEN, Dannie B.;  
; APPLICANT: ARVIZU, Chandra S.; ELLIOTT, Vicki S.;  
; APPLICANT: TRIBOULEY, Catherine M.; LU, Dyung Aina M.;  
; APPLICANT: XU, Yuming; REDDY, Roopa;  
; APPLICANT: HERNANDEZ, Roberto; BOROWSKY, Mark L.;  
; APPLICANT: LO, Terence P.; LU, Yan;  
; APPLICANT: POLICKY, Jennifer L.; GREENE, Barrie D.;  
; APPLICANT: SANJANWALA, Madhusudan M.; RAUMANN, Brigitte E.;  
; APPLICANT: BURFORD, Neil; ISON, Craig H.;  
; APPLICANT: LEE, Ernestine A.; DING, Li;  
; APPLICANT: DAS, Debopriya; KALLICK, Deborah A.;  
; APPLICANT: KHAN, Farrah A.; SEILHAMER, Jeffrey J.;  
; TITLE OF INVENTION: TRANSPORTERS AND ION CHANNELS  
; FILE REFERENCE: PI-0183 USN  
; CURRENT APPLICATION NUMBER: US/10/343,903  
; CURRENT FILING DATE: 2003-02-03  
; PRIOR APPLICATION NUMBER: PCT/US01/24217  
; PRIOR FILING DATE: 2001-08-01  
; PRIOR APPLICATION NUMBER: 60/231,434  
; PRIOR FILING DATE: 2000-09-08  
; PRIOR APPLICATION NUMBER: 60/230,067  
; PRIOR FILING DATE: 2000-08-31  
; PRIOR APPLICATION NUMBER: 60/228,140  
; PRIOR FILING DATE: 2000-08-25  
; PRIOR APPLICATION NUMBER: 60/226,410  
; PRIOR FILING DATE: 2000-08-18  
; PRIOR APPLICATION NUMBER: 60/224,456  
; PRIOR FILING DATE: 2000-08-10  
; PRIOR APPLICATION NUMBER: 60/223,269  
; PRIOR FILING DATE: 2000-08-03  
; NUMBER OF SEQ ID NOS: 60  
; SOFTWARE: PERL Program  
; SEQ ID NO 13  
; LENGTH: 698  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No: 6952742CD1  
US-10-343-903-13  
Query Match 43.1%; Score 1627; DB 5; Length 698;  
Best Local Similarity 47.6%; Pred. No. 2.2e-131;  
Matches 323; Conservative 138; Mismatches 193; Indels 24; Gaps 8;  
QY 56 IEHQKSDTHFKERVIKLQKNCOSPAKAKMILGFLVLOWLPKYLKKNILGDVMSG 115  
DB 17 VRRQRPAPRGLREMLKARLWCSVLCVRLVODLLPATRWLRQYRPRLAGDVMSG 76

QY 116 LIVGILLVPOQSIAYSLLAGQBPVTLGYTSFPASIIYFLICTSRHSISGIFGVLCIMIGET 175  
DB 77 LVIGIIL---AIAYSLLAGQPIYSLYTSFFANLIYFLMGTSRHSVSGIFSLCLMVGQV 133  
QY 176 VDRELOKAGYDANASPSISGVMVNSGSLNHTSDRICDKSCVAINVSGTVTFIAGVYQVA 235  
DB 134 VDRELOLAGFSPQDGLQPG--ANSTLNGSAMLDGDCDYAIRVATALTMTGLYQVL 191  
QY 236 MGFFQVGFVSVDALLSGFVTGASFTILTQAKYLLGLNLPRNGVSGSLTITWHVPR 295  
DB 192 MGVLRLGFVSAYLSQPLLDGFAMGASVTILTSQKHLGLGVRIIPRHQGPQMVVLTWLSLR 251  
QY 296 NIHTNLCDLITSLCLLVLLPTKELNHFHFKLAPIELVNVVAATLASHFGKLNEN 355  
DB 252 GAGQANVCDDVTSTVCLAVLAAKELSDRYRHLRVPLPTELLVIVVATLVSHFGOLHCR 311  
QY 356 YNSSIAGHIPGFMPPKVPENLIPSVAVDAIAISIIIGFAITVLSSEMFAKKHGTYTVKAN 415  
DB 312 FGSSVAGDIPGFMPPQVPEPRLMORVALDAVALVAAPFISLAEMFARSHGYSVRAN 371  
QY 416 OEMYAIGFCNIIPSPFFHCFTTSAALAKTLVKESTCHTQSGVVTALVLLVLLVIAPIF 475  
DB 372 QELLAVGCCNVLPAFLHCFATSAALAKSLVKTATGCTOLSSVVSATVTVLLVLLALAPL 431  
QY 476 YSLQSVLGVITIVNLRGALKRFRDLPKWISISMDTVIFVMTLSSALLSTEIGLLGV 535  
DB 432 HDLQSVLACVTVVSLRGALKRVMDLPRLMRMSPADALVMAGTVATCMVSTEAGLLAGV 491  
QY 536 CFSIECVILRTQPKSSLLGLVESEVFESVAYKNLQTKPGIKIPFVAPLYYINKECF 595  
DB 492 ILSLSLAGTOSHGTALLARIGDTAFYEDATEFEGLVPEPQVRFVFGGPLYANKDFF 551  
QY 596 KSALYKQTVNPIILIKVAMKAAKRKI--KEKVVTLGG-IQDE---MSVOLSHDPLE--L 646  
DB 552 LOSLSYSLTGLD-----AGCWAARRKEGGSETGVGEGPAQGEDLGPVSTRAALVPAAGF 606  
QY 647 HTIVIDCSAIOFLNTAGIHTLKEVRDYEAIGIQLVLAOCNPTVRDSLTNGEYCKK---- 702  
DB 607 HTWIDCAPLLFLDAAGVSTLQDLRRDYDALGALGILLSLACCSPVVRDILSRGGFLGEGPGD 666  
QY 703 -BEENLLFYSVYEMAF 719  
DB 667 TAEEOQLFLSVHDAVOTA 684  
RESULT 13  
US-09-813-432-14  
; Sequence 14, Application US/09813432  
; Publication No. US20030148485A1  
; GENERAL INFORMATION:  
; APPLICANT: Taupier Jr., Raymond J  
; APPLICANT: Majmuder, Kamud  
; APPLICANT: Spaderna, Steven K  
; APPLICANT: Smithson, Glenda  
; APPLICANT: Mezes, Peter S  
; APPLICANT: Vernet, Corine A. M.  
; TITLE OF INVENTION: No. US20030148485A1el Polypeptides and Amino Acids Encoding Same  
; FILE REFERENCE: 15966-729  
; CURRENT APPLICATION NUMBER: US/09/813,432  
; CURRENT FILING DATE: 2001-03-20  
; PRIOR APPLICATION NUMBER: 60/190,835  
; PRIOR FILING DATE: 2000-03-20  
; PRIOR APPLICATION NUMBER: 60/190,768  
; PRIOR FILING DATE: 2000-03-20  
; PRIOR APPLICATION NUMBER: 60/190,972  
; PRIOR FILING DATE: 2000-03-22  
; PRIOR APPLICATION NUMBER: 60/191,199  
; PRIOR FILING DATE: 2000-03-22  
; PRIOR APPLICATION NUMBER: 60/191,947  
; PRIOR FILING DATE: 2000-03-24  
; PRIOR APPLICATION NUMBER: 60/192,665  
; PRIOR FILING DATE: 2000-03-28

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; PRIOR APPLICATION NUMBER: 60/192,657
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: 60/192,984
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: 60/192,664
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: 60/192,836
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/193,843
; PRIOR FILING DATE: 2000-03-31
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 633
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-813-432-14

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Query Match	34.8%	Score	1314.5	DB 3	Length	633
Best Local Similarity	41.3%	Pred. No.	2.1e-104			
Matches	280	Conservative	124	Mismatches	185	Indels
						89
						Gaps
						12
QY	56	IERQEKSDNFKEFVTKLQKQCQSPAKAKMILGFPLVQLWPKYDKKNILGDVMSG	115			
DB	17	VRQRPAPRGLREMLKARLWCSCSCLVCRALVQDLLPATENLRQYPRSYLAGDVMSG	76			
QY	116	LIVGILLVQPSAYSILLAGOEYVGLYTSFFASIIYFLGTSRHSIVGIFGLCMIGET	175			
DB	77	LIVGILLVQPAIYSLLAGLOIYSLYTSFFANLIYFLMGTSRHSVIGIISLLCLMVQGV	136			
QY	176	VDELOKAGYDNAHSAFSLGMVNSGTLLNHTSDRI CDKCYATWGSTVTFAGUYQVA	235			
DB	137	VDELOLAGFDPQDGLQPG--ANSTSLNGSAAMDCGRD CYA IRVATATLMTGLYQVL	194			
QY	236	MGFFOVGFVSYVLLDALLSGFVGTGASFTILT SQAKYLLGLNLPRTNGVGLIITWTIHYER	295			
DB	195	MGVRLGFSVAYSLOPLLDGPAMGASVTILTSQLKHLGVIRPHQPGQVMVLTWLSLR	254			
QY	296	NIHKTNLCDLTSLTCLLVLTPKELNEHFKSLKAPIELV VVAATLASHFGKLHEN	355			
DB	255	GAGQANCDVVTSTVCLAVLAAKELSDRYRHLRVLPTTELLVIVVATLVSHFGQLHXR	314			
QY	356	YNSSIAGHIPGFMPPKVPENMLIPSVAVDAIAISII GPATVSLSEMAFKHGYTVKAN	415			
DB	315	FGSSVAGDIPTFGFMPPQVPEPRLMQWRVALDAVALVAAAFSLSAEMFARSHGYSVRAN	374			
QY	416	QEMYAIGFCNIIIPSFHCFTTSAALAKTLVKESTGCHTQLSGVVTALVLLLVLLVIAPLF	475			
DB	375	QELLAV-----HRG-----	383			
QY	476	YSLQKSVLGVTIYNLRGALKRFRDLPKOWMSIRMDTVIWFVMTLSALLSTPEIGLVGV	535			
DB	384	-----HLRGACQGV-GUPGGCG-SPADALVMAGTG-TCMLVSTTEAGLLAGV	426			
QY	536	CFSIFCVILRTQPKSLGLLVESESVFVSAYKNLOT KPQIKIFRFVAPLYYINKECF	595			
DB	427	ILSLLSLAGRTQKPTALLARIGDTAFYEDATEFEFGLVPEPGVRVFRGGGLYVANKDFF	486			
QY	596	KSALYKQTVNPILIKVAKKAARXKI--KEKVVTI LGG-IQDE---MSVQLSHDPLE--L	646			
DB	487	LOSLYSLTGLD-----AGCWAARRKEGGSSETGVGEGGPAQGEDLGPVSTRAALVPAAAGF	541			
QY	647	HTIVDCSAIQFLNTAGIHTLKEVRDRDYEAIGI OVLLAQCNPTRDSTLTNCEYCK--	702			
DB	542	HTWVIDCAPLLFDLDAAGVSTLQDLRRDYQALGISLLLACCSPPVRDILSRGGFLGEGPGD	601			
QY	703	-BEENLFFYSVYENMAFA	719			
DB	602	TAEEOOLFSLVHDVOTA	619			

RESULT 14  
US-10-174-364-14

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; Sequence 14, Application US/10174364
; Publication No. US20030216308A1
; GENERAL INFORMATION:
; APPLICANT: Anderson et al.
; TITLE OF INVENTION: NOVEL POLYPEPTIDES AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 15966-729CIP2
; CURRENT APPLICATION NUMBER: US/10/174,364
; CURRENT FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: 60/190,835
; PRIOR FILING DATE: 2000-03-20
; PRIOR APPLICATION NUMBER: 60/190,768
; PRIOR FILING DATE: 2000-03-20
; PRIOR APPLICATION NUMBER: 60/190,972
; PRIOR FILING DATE: 2000-03-22
; PRIOR APPLICATION NUMBER: 60/191,199
; PRIOR FILING DATE: 2000-03-22
; PRIOR APPLICATION NUMBER: 60/191,947
; PRIOR FILING DATE: 2000-03-24
; PRIOR APPLICATION NUMBER: 60/192,665
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: 60/192,657
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: 60/192,984
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: 60/192,664
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: 60/192,836
; PRIOR FILING DATE: 2000-03-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 128
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 633
; TYPE: PRT
; ORGANISM: Homo sapiens
; 1-10-174-364-14

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Query Match		34.8%	Score 1314.5;	DB 4;	Length 633;
Best Local Similarity		41.3%	Pred. No. 2 ie-104;		
Matches 280;		Conservative 124;	Mismatches 185;	Indels 89;	Gaps 12;
QY	56	I E R Q E S D T W P K F V I K L O N C O C S P A K A K M I G L F P V L O M L P K Y D L K K N I L G D V M S G	115		
DG	17	V R R Q R P A P R G L R E M L K A R L M C S C S V L C V R A L V Q D L L P A T R M L Q R V R P R E Y L A G D V M S G	76		
QY	116	L I V G I L L P O S I A Y S L L A G O P V Y G L Y T S F F A S I I Y F L I G T S H I S V G I F G V L C L M I G E T	175		
DG	77	L V I G I I L V P Q A I A Y S L L A G L Q P I Y S L Y T S F F A N I I Y F L M G T S H S V G I F S L L C L M V G Q V	136		
QY	176	V D R E L Q A G Y D N A H S A P S L G M V S N G S T L N I H T S D R I C D K S C V A I M G S T V T P T A G Y V O V A	235		
DG	137	V D R E L Q A G D P S Q D G L Q P G - - A N S T L N G S A A M L D C G R D C V A I R V A T A L T M T G L Y Q V L	194		
QY	236	M G F Q V G F V S V I L S D A L L S G F V T G A S F T I L T S O A K Y L L G L N I L P R T N G V G S L I T T I H I V P R	295		
DG	195	M G V I R L G F S A Y L S Q P L L D G F A N G A S V T I L T S Q L K H L L G V R I P R H Q G P G M V L T M L S L L R	254		
QY	296	N I H K T N L C D L I T S L L C L L V L L P T K E L N E H F K S K L A P I E L V A V V V A A T L A S H P Q K U H E N	355		
DG	255	G A Q O A N V C D V T S T V C L A V L L A A K E L S D R Y R H R L R V P I P T E L L V T V A T L V S H F Q O L H K R	314		
QY	356	Y N S I A G H I P T G M P P K P E W N L I B S V A V D A I A I S I I G F A I T V S L S E M F A K K H G Y T V K A N	415		
DG	315	F G S S V A G D I P T G M P P Q V P P E P R L M Q R V A L D A V A L A A A P S I S L A E N F A S H G S V S R A N	374		
QY	416	Q S M V A I G F C N I I P S F F H C F T T S A A L A K T V K E S T G C H T Q L S G V V T A L V L L L V L L V I A P L F	475		
DG	375	Q E L L A V - - - - - H R G - - - - -	383		
QY	476	Y S L O K S V L G V I T I V N L R G A L K R F D L P K W M S I S R M D T V I N F V T M L S A L L S T E I G L L V G V	535		
DG	384	- - - - - H L R G A C O G V - G L P C C G G - S P A D A L V W A G T G - T C M L Y S T E A G L A G V	426		

Qy 536 CFSIFCVRILTRQPKSSLLGLVESESVSAVKNLQTKGKIFRVPVAPLYYINKECF 595  
Db 427 ILSLSLAGRTQKPTALLARIGDTAFYEDATEFEGVLVPEGVFRFGGPLYANKDFF 486  
Qy 596 KSALYKOTVNPILIKVAKKAAKRI--KEKVTLGG-IODE-----MSVOLSHDPLE--L 646  
Db 487 LOSLYSLTGLD-----ACGMAARRKEGSGTGVGEGGPAQGEDLGPVSTRAALVPAAGF 541  
Qy 647 HTIVIDCSAIOFLNTAGHTLKEVRDYEAIGIQVLLAQCNPTVRDLSLTNGEYCKK---- 702  
Db 542 HTVIDCAPLFLDAAGVSTLQDLRRDYGALGISLLACCSPVVRDILSRGGFLGEGPGD 601  
Qy 703 -EENLLFYSVYEAMAPA 719  
Db 602 TAEEQLFLSVHDAVQTA 619

RESULT 15  
US-10-246-583-14  
; Sequence 14, Application US/1024583  
; Publication No. US20040058862A1  
; GENERAL INFORMATION:  
; APPLICANT: Majumder  
; TITLE OF INVENTION: NOVEL POLYPEPTIDES AND NUCLEIC ACIDS ENCODING SAME  
; FILE REFERENCE: 15966-729CIP2CON1  
; CURRENT APPLICATION NUMBER: US/10/246,583  
; CURRENT FILING DATE: 2002-12-06  
; PRIOR APPLICATION NUMBER: 10/174,364  
; PRIOR FILING DATE: 2002-06-17  
; PRIOR APPLICATION NUMBER: 60/190,835  
; PRIOR FILING DATE: 2000-03-20  
; PRIOR APPLICATION NUMBER: 60/190,768  
; PRIOR FILING DATE: 2000-03-20  
; PRIOR APPLICATION NUMBER: 60/190,972  
; PRIOR FILING DATE: 2000-03-22  
; PRIOR APPLICATION NUMBER: 60/191,199  
; PRIOR FILING DATE: 2000-03-22  
; PRIOR APPLICATION NUMBER: 60/191,947  
; PRIOR FILING DATE: 2000-03-24  
; PRIOR APPLICATION NUMBER: 60/192,665  
; PRIOR FILING DATE: 2000-03-28  
; PRIOR APPLICATION NUMBER: 60/192,657  
; PRIOR FILING DATE: 2000-03-28  
; PRIOR APPLICATION NUMBER: 60/192,984  
; PRIOR FILING DATE: 2000-03-28  
; PRIOR APPLICATION NUMBER: 60/192,664  
; PRIOR FILING DATE: 2000-03-28  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 128  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 14  
; LENGTH: 633  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-246-583-14

Query Match 34.8%; Score 1314.5; DB 4; Length 633;  
Best Local Similarity 41.3%; Pred. No. 2.1e-104;  
Matches 280; Conservative 124; Mismatches 185; Indels 89; Gaps 12;

Qy 56 IERQEKSDTNFKEFVKLKQKNCOCSPAKAKNMILGFLPVQLWLPKYDLKKNILGDVMSG 115  
Db 17 VRRQPAAPGLRMLKARLWCSCSVLCVRALVQDLLPATRWLRQYRPREVLADVMSG 76  
Qy 116 LIVGILLVPQSIAYSLAQEPVGYLTSTFFASIIYFLTGRHSISVGFVLCMLIGET 175  
Db 77 LVIGIILVPOAIAYSLAGLQPIYSLYTSFFANLIYFLMGTSHSVGVFSLCLMVGVQV 136  
Qy 176 VDRELQKAGVDNAHSAPSLGMVSGSTLLNHTSDRCDKSCVAIMVGVSTVTFIAGVYQVA 235  
Db 137 VDRELQLAGDFPSQDGLQPG--ANSTLNGSAAMLDCGRDCYAIRVATALTMTGLYQVL 194  
Qy 236 MGFFQVGVSVVLSALLSGFVTGASFTILTQAKYLLGLNLPRNTNGVGSLLTTHVFR 295

Db 195 MGVLRLGFEVSAYLSQPLLDGFAMGASVTILTSQKHLGVRI PRHOQPGMVVITWLSLLR 254  
Qy 296 NIHTNLCULITSLCLLVLLPTKELNEHPKSKAPITELVVAATLASHFGKLHEN 355  
Db 255 GAGQANVCDVVTVCVLAALLAAKELSDRYRHLRVPLPTLVLVIVVATLVSHFGQLHKR 314  
Qy 356 YNSSIAGHIPTGMPKPKVPEMNIIPSVAVDAIAISIIIGFAITVLSLSEMPAKKGHYTKAN 415  
Db 315 FGSSVAGDIPTGMPQVPEPRLMQRVALDALVAAAFSISLAEMFARSHGYSVRAN 374  
Qy 416 QEMVAIGFCNIIISFFHCFTTSAALAKTLVKESTGCHTQLSGVVVTALVLLVLLVIAPLF 475  
Db 375 QELLAV-----HRG----- 383  
Qy 476 YSLQKSVLGVITITVNLRGALRKFRDLPKMWSISRMDTVIWFVTMLSSALLSTEIGLLGV 535  
Db 384 -----HLRGACQGV-GLPGCGG-SPADALVWAGTG-TCMLVSTEAGLLAGV 426  
Qy 536 CFSIFCVRILTRQPKSSLLGLVESESVSAVKNLQTKGKIFRVPVAPLYYINKECF 595  
Db 427 ILSLSLAGRTQKPTALLARIGDTAFYEDATEFEGVLVPEGVFRFGGPLYANKDFF 486  
Qy 596 KSALYKOTVNPILIKVAKKAAKRI--KEKVTLGG-IODE-----MSVOLSHDPLE--L 646  
Db 487 LOSLYSLTGLD-----ACGMAARRKEGSGTGVGEGGPAQGEDLGPVSTRAALVPAAGF 541  
Qy 647 HTIVIDCSAIOFLNTAGHTLKEVRDYEAIGIQVLLAQCNPTVRDLSLTNGEYCKK---- 702  
Db 542 HTVIDCAPLFLDAAGVSTLQDLRRDYGALGISLLACCSPVVRDILSRGGFLGEGPGD 601  
Qy 703 -EENLLFYSVYEAMAPA 719  
Db 602 TAEEQLFLSVHDAVQTA 619

Search completed: December 20, 2006, 05:02:44  
Job time : 188 secs